AWS-Certified Solutions Architect-Associate (SAA-C02)

(考试时长 140min，65 题)

1. A company is planning to use Amazon S3 to store images uploaded by its users. The images must be encrypted at rest in Amazon S3. The company does not want to spend time managing and rotating the keys, but it does want to control who can access those keys.
What should a solutions architect use to accomplish this?
A. Server-Side Encryption with keys stored in an S3 bucket
B. Server-Side Encryption with Customer-Provided Keys（SSE-C）
C. Server-Side Encryption with Amazon S3-Managed Keys（SSE-S3）
D. Server-Side Encryption with AWS KMS-Managed Keys（SSE-KMS）
答案：D

2. A company currently operates a web application backed by an Amazon RDS MySQL database. It has automated backups that are run daily and are not encrypted. A security audit requires future backups to be encrypted and the unencrypted backups to be destroyed. The company will make at least one encrypted backup before destroying the old backups.
What should be done to enable encryption for future backups?
A. Enable default encryption for the Amazon S3 bucket where backups are stored.
B. Modify the backup section of the database configuration to toggle the Enable encryption check box
C. Create a snapshot of the database. Copy it to an encrypted snapshot. Restore the database from the encrypted snapshot
D. Enable an encrypted read replica on RDS for MySQL. Promote the encrypted read replica to primary. Remove the original database instance
一家公司目前正运行着一个由 Amazon RDS MySQL 数据库支持的网络应用程序。它有每天运行但未被加密的自动备份。安全审计要求未来的备份要加密，而未加密的备份必须被销毁。公司将会在销毁旧的备份之前创建至少一个加密备份。为了为未来备份加密应该怎么做？
A. 允许对存储备份的 Amazon S3 存储桶进行默认加密
B. 修改数据库设置的备份区切换 Enab1e 加密复选框
C. 创建一个数据库快照。将其复制到一个加密快照中。从加密快照中还原数据库
D. 在 RDS for MySQL 上启用加密只读副本。将加密只读副本作为主要内容。移除原始数据库实例
答案：C

3. A gaming company has multiple Amazon EC2 instances in a single Availability Zone for its multiplayer game that communicates with users on Layer 4. The chief technology officer（CTO）wants to make the architecture highly available and cost-effective.
What should a solutions architect do to meet these requirements？ （Select Two）
A. Increase the number of EC2 instances
B. Decrease the number of EC2 instances
C. Configure a Network Load Balancer in front of the EC2 instances
D. Configure an Application Load Balancer in front of the EC2 instances
E. Configure an Auto Scaling group to add or remove instances in multiple Availability Zones automatically
答案：CE

4. A solutions architect needs to ensure that API calls to Amazon DynamoDB from Amazon EC2 instances in a VPC do not traverse the internet
What should the solutions architect do to accomplish this? （Select Two）
A. Create a route table entry for the endpoint.
B. Create a gateway endpoint for DynamoDB
C. Create a new DynamoDB table that uses the endpoint
D. Create an ENI for the endpoint in each of the subnets of the VPC
E. Create a security group entry in the default security group to provide access
答案：AB

5. A product team is creating a new application that will store a large amount of data. The data will be analyzed hourly and modified by multiple Amazon EC2 Linux instances. The application team believes the amount of space needed will continue to grow for the next 6 months.

Which set of actions should a solutions architect take to support these needs？

A. Store the data in an Amazon EBS volume Mount the EBS volume on the application instances

B. Store the data in an Amazon EFS file system. Mount the file system on the application instances

C. Store the data in Amazon S3 Glacier. Update the vault policy to allow access to the application instances

D. Store the data in Amazon S3 Standard-Infrequent Access（S3 Standard-IA） Update the bucket policy to allow access to the application Instances

答案：B

6. An application running on AWS uses an Amazon Aurora Multi-AZ deployment for its database. When evaluating performance metrics, a solutions architect discovered that the database reads are causing high I/O and adding latency to the write requests against the database.

What should the solutions architect do to separate the read requests from the write requests?

A. Enable read-through caching on the Amazon Aurora database.

B. Update the application to read from the Multi-AZ standby instance

C. Create a read replica and modify the application to use the appropriate endpoint

D. Create a second Amazon Aurora database and link it to the primary database as a read replica

答案：C

7. A company is planning to migrate its virtual server-based workloads to AWS. The company has internet-facing load balancers backed by application servers. The application servers rely on patches from an internet-hosted repository Which services should a solutions architect recommend be hosted on the public subnet？ （Select TWO）

A. NAT gateway

B. Amazon RDS DB instances

C. Application Load Balancers

D. Amazon EC2 application servers

E. Amazon Elastic File System（Amazon EFS ） volumes

答案：AC

8. A company serves content to its subscribers across the world using an application running on AWS. The application has several Amazon EC2 instances in a private subnet behind an Application Load Balancer（ALB）. Due to a recent change in copyright restrictions, the chief information officer （CIO） wants to block access for certain countries

Which action will meet these requirements？

A. Modify the ALB security group to deny incoming traffic from blocked countries

B. Modify the security group for EC2 instances to deny incoming traffic from blocked countries

C. Use Amazon CloudFront to serve the application and deny access to blocked countries

D. Use ALB listener rules to return access denied responses to incoming traffic from blocked countries

答案：C

9. A company has an application that calls AWS Lambda functions. A recent code review found database credentials stored in the source code. The database credentials need to be removed from the Lambda source code. The credentials must then be securely stored and rotated on an ongoing basis to meet security policy requirements

What should a solutions architect recommend to meet these requirements？

A. Store the password in AWS CloudHSM. Associate the Lambda function with a role that can retrieve the password from CloudHSM given its key ID

B. Store the password in AWS Secrets Manager. Associate the Lambda function with a role that can retrieve the password from Secrets Manager given its secret ID

C. Move the database password to an environment variable associated with the Lambda function. Retrieve the password from the environment variable upon execution

D. Store the password in AWS Key Management Service （AWS KMS） . Associate the Lambda function with a role that can retrieve the password from AWS KMS given its key ID

答案：B

10. A company's legacy application is currently relying on a single-instance Amazon RDS MySQL database without encryption. Due to new compliance requirements, all existing and new data in this database must be encrypted. How should this be accomplished?

A. Create an Amazon S3 bucket with server-side encryption enabled Move all the data to Amazon S3. Delete the RDS instance

B. Enable RDS Multi-AZ mode with encryption at rest enabled. Perform a failover to the standby instance to delete the original Instance

C. Take a snapshot of the RDS instance. Create an encrypted copy of the snapshot Restore the RDS instance from the encrypted snapshot

D. Create an RDS read replica with encryption at rest enabled. Promote the read replica to master and switch the application over to the new master Delete the old RDS instance

答案：C

11. A solutions architect is designing a web application that will run on Amazon EC2 instances behind an Application Load Balancer （ALB）
The company strictly requires that the application be resilient against malicious internet activity and attacks, and protect against new common vulnerabilities and exposures
What should the solutions architect recommend?
A. Leverage Amazon CloudFront with the ALB endpoint as the origin
B. Deploy an appropriate managed rule for AWS WAF and associate it with the ALB
C. Subscribe to AWS Shield Advanced and ensure common vulnerabilities and exposures are blocked
D. Configure network ACLs and security groups to allow only ports 80 and 443 to access the EC2 instances
答案：C

12. A company is hosting a web application on AWS using a single Amazon EC2 instance that stores user-uploaded documents in an Amazon EBS volume. For better scalability and availability, the company duplicated the architecture and created a second EC2 instance and EBS volume in another Availability Zone, placing both behind an Application Load Balancer. After completing this change, users reported that, each time they refreshed the website, they could see one subset of their documents or the other, but never all of the documents at the same time.
What should a solutions architect propose to ensure users see all of their documents at once?
A. Copy the data so both EBS volumes contain all the documents
B. Configure the Application Load Balancer to direct a user to the server with the documents
C. Copy the data from both EBS volumes to Amazon EFS. Modify the application to save new documents to Amazon EFS
D. Configure the Application Load Balancer to send the request to both servers Return each document from the correct server
答案：C

13. A solutions architect is designing a solution where users will be directed to a backup static error page if the primary website is unavailable. The primary website's DNS records are hosted in Amazon Route 53 where their domain is pointing to an Application Load Balancer （ALB）.
Which configuration should the solutions architect use to meet the company's needs while minimizing changes and infrastructure overhead?
A. Point a Route 53 alias record to an Amazon CloudFront distribution with the ALB as one of its origins. Then, create custom error pages for the distribution
B. Set up a Route 53 active-passive failover configuration. Direct traffic to a static error page hosted within an Amazon S3 bucket when Route 53 health checks determine that the ALB endpoint is unhealthy
C. Update the Route 53 record to use a latency-based routing policy. Add the backup static error page hosted within an Amazon S3 bucket to the record so the traffic is sent to the most responsive endpoints
D. Set up a Route 53 active-active configuration with the ALB and an Amazon EC2 instance hosting a static error page as endpoints. Route 53 will only send requests to the instance if the health checks fail for the ALB
答案：B

14. A company recently deployed a new auditing system to centralize information about operating system versions, patching, and installed software for Amazon EC2 instances. A solutions architect must ensure all instances provisioned through EC2 Auto Scaling groups successfully send reports to the auditing system as soon as they are launched and terminated

Which solution achieves these goals MOST efficiently?

A. Use a scheduled Aws Lambda function and execute a script remotely on all EC2 instances to send data to the audit system

B. Use EC2 Auto Scaling lifecycle hooks to execute a custom script to send data to the audit system when instances are launched and terminated

C. Use an EC2 Auto Scaling launch configuration to execute a custom script through user data to send data to the audit system when instances are launched and terminated

D. Execute a custom script on the instance operating system to send data to the audit system. Configure the script to be executed by the EC2 Auto Scaling group when the instance starts and is terminated

答案：C

15. A company receives structured and semi-structured data from various sources once every day. A solutions architect needs to design a solution that leverages big data processing frameworks. The data should be accessible using SQL queries and business intelligence tools.

What should the solutions architect recommend to build the MOST high-performing solution?

A. Use AWS Glue to process data and Amazon S3 to store data

B. Use Amazon EMR to process data and Amazon Redshift to store data

C. Use Amazon EC2 to process data and Amazon Elastic Block Store（Amazon EBS） to store data

D. Use Amazon Kinesis Data Analytics to process data and Amazon Elastic File System（Amazon EFS）to store data

答案：B

16. A company hosts a static website within an Amazon S3 bucket. A solutions architect needs to ensure that data can be recovered in case of accidental deletion

Which action will accomplish this?

A. Enable Amazon S3 versioning

B. Enable Amazon S3 Intelligent-Tiering

C. Enable an Amazon S3 lifecycle policy

D. Enable Amazon S3 cross-Region replication

一家公司在一个 Amazon S3 存储桶中有一个静态网页。解决方案架构师需要确保在不小心删除的情况下能够找回数据

以下哪个行动可以做到这一点？

A.启动 Amazon S3 版本控制

B.启动 Amazon S3 智能分层

C.启用 Amazon S3 生命周期策略

D.启动 Amazon S3 跨区域复制

答案：A

17. A company runs an internal browser-based application. The application runs 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 up to 20 instances during work hours, but scales down to 2 instances overnight. Staff are complaining that the application is very slow when the day begins, although it runs well by mid-morning

How should the scaling be changed to address the staff complaints and keep costs to a minimum?

A. Implement a scheduled action that sets the desired capacity to 20 shortly before the office opens

B. Implement a step scaling action triggered at a lower CPU threshold, and decrease the cooldown period

C. Implement a target tracking action triggered at a lower CPU threshold, and decrease the cooldown period

D. Implement a scheduled action that sets the minimum and maximum capacity to 20 shortly before the office opens

公司运行一个内部的基于浏览器的应用程序。该应用程序在应用程序负载均衡器后面的 Amazon EC2 实例上运行。这些实例运行在跨多个可用区的 Amazon EC2 Auto Sca1ing 组中。该 AutoSca1ing 组在工作时间将 20 个实例，但是在夜间实例数量缩应如何改变扩展方式以解决员工的投诉问题，并保证成本最小化？

A.实施预定动作，在办公室开门前很快将所需容量设置为 20

B.实施逐步扩展动作，CPU 低于某一阈值时将会被触发，并且诚少冷却时间。

C.实施目标追踪动作，CPU 低于某一阈值时将会被触发，并且减少冷却时间。

D.实施预定动作，在办公室开门前很快将最小和最大容量设置为 20。

答案：A

18. A company runs an application on Amazon EC2 instances. The application is deployed in private subnets in three Availability Zones of the us-east-1 Region. The instances must be able to connect to the internet to download files. The company wants a design that is highly available across the Region

Which solution should be implemented to ensure that there are no disruptions to internet connectivity?

A. Deploy a NAT instance in a private subnet of each Availability Zone

B. Deploy a NAT gateway in a public subnet of each Availability Zone

C. Deploy a transit gateway in a private subnet of each Availability Zone

D. Deploy an internet gateway in a public subnet of each Availability Zone

答案：B

19. 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

答案：A

20. A company recently released a new type of internet-connected sensor. The company is expecting to sell thousands of sensors, which are designed to stream high volumes of data each second to a central location. A solutions architect must design a solution that ingests and stores data so that engineering teams can analyze it in near-real time with millisecond responsiveness.

Which solution should the solutions architect recommend?

A. Use an Amazon SQS queue to ingest the data Consume the data with an AWS Lambda function, which then stores the data in Amazon Redshift

B. Use an Amazon SQS queue to ingest the data. Consume the data with an AWS Lambda function, which then stores the data in Amazon DynamoDB

C. Use Amazon Kinesis Data Streams to ingest the data Consume the data with an AWS Lambda function, which then stores the data in Amazon Redshift

D. Use Amazon Kinesis Data Streams to ingest the data Consume the data with an AWS Lambda function, which then stores the data in Amazon DynamoDB

答案：C

21. A solutions architect has created a new AWS account and must secure AWS account root user access

Which combination of actions will accomplish this?（Select Two）

A. Ensure the root user uses a strong password

B. Enable multi-factor authentication to the root user

C. Store root user access keys in an encrypted Amazon S3 bucket.

D. Add the root user to a group containing administrative permissions

E. Apply the required permissions to the root user with an inline policy document

解决方案架构师创建了一个 AWS 账户并必须保护 AWS 账户根用户的安全访问。

哪种动作组合可以做到这一点？（选择两个。）

A.确保根用户使用强密码。

B.启用根用户的多重身份验证

C.将根用户的访问密匙存储在加密的 Amazon S3 存储桶中。

D.添加根用户至包含管理员权限的组。

E.使用内联策略文档，为根用户申请所需的权限。

答案：AB

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

What is the MOST cost-effective solution to meet these requirements?

A. Use Amazon EC2 instances to manipulate the original image into the requested customization. Store the original and manipulated images in Amazon S3. Configure an Elastic Load Balancer in front of the EC2 instances

B. Use AWS Lambda to manipulate the original image to the requested customization. Store the original and manipulated images in Amazon S3. Configure an Amazon CloudFront distribution with the S3 bucket as the origin

C. Use AWS Lambda to manipulate the original image to the requested customization. Store the original images in Amazon S3 and the manipulated images in Amazon DynamoDB. Configure an Elastic Load Balancer in front of the Amazon EC2 Instances

D. Use Amazon EC2 instances to manipulate the original image into the requested customization. Store the original images in Amazon S3 and the manipulated images in Amazon DynamoDB. Configure an Amazon CloudFront distribution with the S3 bucket as the origin

答案：B

23. A solutions architect is designing an application for a two-step order process. The first step is synchronous and must return to the user with little latency. The second step takes longer, so it will be implemented in a separate component. Orders must be processed exactly once and in the order in which they are received
How should the solutions architect integrate these components?

A. Use Amazon SQS FIFO queues

B. Use an AWS Lambda function along with Amazon SQS standard queues

C. Create an SNS topic and subscribe an Amazon SQS FIFO queue to that topic

D. Create an SNS topic and subscribe an Amazon SQS Standard queue to that topic

解决方案架构师正在设计一个两步订购流程的应用程序。第一步是同步并务必以很小的延迟返回给用户。第二步需要的时间更长，因此这步将在一个单独的组件中实现。订单必须按收到的顺序准确的处理。解决方案架构师应该如何整合这些组件？

A.使用 Amazon SQS 先入先出队列。

B.使用带 Amazon SQS 标准队列的 AWS Lambda 函数。

C.创建 SNS 话题并订阅该主题的 Amazon SQS 先入先出队列。

D.创建 SNS 话题并订阅该主题的 Amazon SQS 标准队列。

答案：A

24. A solutions architect is designing the storage architecture for a new web application used for storing and viewing engineering drawings. All application components will be deployed on the AWS infrastructure.
The application design must support caching to minimize the amount of time that users wait for the engineering drawings to load. The application must be able to store petabytes of data
Which combination of storage and caching should the solutions architect use?

A. Amazon S3 with Amazon CloudFront

B. Amazon S3 Glacier with Amazon ElastiCache

C. Amazon Elastic Block Store（Amazon EBS） volumes with Amazon CloudFront

D. AWS Storage Gateway with Amazon ElastiCache

答案：A

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

A. Create a site-to-site VPN tunnel to an Amazon S3 bucket and transfer the files directly. Create a bucket policy to enforce a VPC endpoint

B. Order 10 AWS Snowball appliances and select an S3 Glacier vault as the destination. Create a bucket policy to enforce a VPC endpoint

C. Mount the network-attached file system to Amazon S3 and copy the files directly. Create a lifecycle policy to transition the S3 objects to Amazon S3 Glacier.

D. Order 10 AWS Snowball appliances and select an Amazon S3 bucket as the destination. Create a lifecycle policy to transition the S3 objects to Amazon S3 Glacier

答案：D

26. A company's application is running on Amazon EC2 instances in a single Region. In the event of a disaster, a solutions architect needs to ensure that the resources can also be deployed to a second Region

Which combination of actions should the solutions architect take to accomplish this?　(Select Two)

A. Detach a volume on an EC2 instance and copy it to Amazon S3

B. Launch a new EC2 instance from an Amazon Machine Image（AMD）in a new Region

C. Launch a new EC2 instance in a new Region and copy a volume from Amazon S3 to the new instance.

D. Copy an Amazon Machine Image（AMD）of an EC2 instance and specify a different Region for the destination

E. Copy an Amazon Elastic Block Store（Amazon EBS）volume from Amazon S3 and launch an EC2 instance in the destination Region using that EBS volume

答案：BD

27. A solutions architect is designing a high performance computing（HPC）workload on Amazon EC2. The EC2 instances need to communicate to each other frequently and require network performance with low latency and high throughput Which EC2 configuration meets these requirements?

A. Launch the EC2 instances in a cluster placement group in one Availability Zone

B. Launch the EC2 instances in a spread placement group in one Availability zone

C. Launch the EC2 instances in an Auto Scaling group in two Regions and peer the VPCs

D. Launch the EC2 instances in an Auto Scaling group spanning multiple Availability Zones

解决方案架构师正在 Amazon EC2 上设计一个高性能计算（HPC）负载。EC2 实例需要彼此之间的频繁交流，及需要低延迟高吞吐量的网络运行表现。下列哪个 EC2 实例满足上述要求？

A.　在一个可用区的集群式置放群组里启动 EC2 实例。

B.　在一个可用区的分布式置放群组里启动 BC2 实例。

C.　在两个区域中的一个 Auto scal1ing 群组里启动 EC2 实例并对等连接 VPC。

D.在众多可用区中的一个 Auto Scaling 群组里启动 EC2 实例

答案：A

28. A company is hosting its static website in an Amazon S3 bucket, which is the origin for Amazon CloudFront. The company has users in the United States, Canada, and Europe and wants to reduce costs What should a solutions architect recommend?

A. Adjust the CloudFront caching time to live（TTL）from the default to a longer timeframe

B. Implement Cloud Front events with Lambda@Edge to run the website's data processing

C. Modify the CloudFront price class to include only the locations of the countries that are served

D. Implement a CloudFront Secure Sockets Layer（SSL）certificate to push security closer to the locations of the countries that are served

答案：C

29. A solutions architect at an ecommerce company wants to back up application log data to Amazon S3. The solutions architect is unsure how frequently the logs will be accessed or which logs will be accessed the most. The company wants to keep costs as low as possible by using the appropriate S3 storage class Which S3 storage class should be implemented to meet these requirements?

A. S3 Glacier

B. S3 Intelligent-Tiering

C. S3 Standard-Infrequent Access（S3 Standard-IA）

D. S3 One Zone-Infrequent Access（S3 One Zone-IA）

答案：B

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

A. Use one SQS FIFO queue. Assign a higher priority to the paid photos so they are processed first

B. Use two SQS FIFO queues: one for paid and one for free. Set the free queue to use short polling and the paid queue to use long polling

C. Use two SQS standard queues: one for paid and one for free. Configure Amazon EC2 instances to prioritize polling for the paid queue over the free queue

D. Use one SQS standard queue. Set the visibility timeout of the paid photos to zero. Configure Amazon EC2 instances to prioritize visibility settings so paid photos are processed first

答案：C

31. A company's website is used to sell products to the public. The site runs on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer（ALB）. There is also an Amazon CloudFront distribution, and AWS WAF is being used to protect against SQL injection attacks. The ALB is the origin for the CloudFront distribution. A recent review of security logs revealed an external malicious IP that needs to be blocked from accessing the website.
What should a solutions architect do to protect the application？
A. Modify the network ACL on the CloudFront distribution to add a deny rule for the malicious IP address
B. Modify the configuration of AWS WAF to add an IP match condition to block the malicious IP address
C. Modify the network ACL for the EC2 instances in the target groups behind the ALB to deny the malicious IP address
D. Modify the security groups for the EC2 instances in the target groups behind the ALB to deny the malicious IP address
答案：B

32. A financial services company has a web application that serves users in the United States and Europe. The application consists of database tier and a web server tier. The database tier consists of a MySQL database hosted in us-east-1. Amazon Route 53 geoproximity routing is used to direct traffic to instances in the closest Region. A performance review of the system reveals that European users are not receiving the same level of query performance as those in the United States
Which changes should be made to the database tier to improve performance？
A. Migrate the database to Amazon RDS for MySQL. Configure Multi-AZ in one of the European Regions
B. Migrate the database to Amazon DynamoDB. Use DynamoDB global tables to enable replication to additional Regions
C. Deploy MySQL instances in each Region. Deploy an Application Load Balancer in front of MySQL to reduce the load on the primary Instance
D. Migrate the database to an Amazon Aurora global database in MySQL compatibility mode. Configure read replicas in one of the European Regions
答案：D

33. Organizers for a global event want to put daily reports online as static HTML pages. The pages are expected to generate millions of views from users around the world. The files are stored in an Amazon S3 bucket. A solutions architect has been asked to design an efficient and effective solution
Which action should the solutions architect take to accomplish this？
A. Generate presigned URLs for the files
B. Use cross-Region replication to all Regions
C. Use the geoproximity feature of Amazon Route 53
D. Use Amazon CloudFront with the S3 bucket as its origin
答案：D

34. 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 Cloud Front with a custom origin pointing to the on-premises servers
D. Use an Amazon Route 53 geoproximity routing policy pointing to on-premises servers
答案：C

35. A company has a multi-tier application that runs six front-end web servers in an Amazon EC2 Auto Scaling group in a single Availability Zone behind an Application Load Balancer（ALB）. A solutions architect needs to modify the infrastructure to be highly available without modifying the application
Which architecture should the solutions architect choose that provides high availability?
A. Create an Auto Scaling group that uses three instances across each of two Regions.
B. Modify the Auto Scaling group to use three instances across each of two Availability Zones
C. Create an Auto Scaling template that can be used to quickly create more instances in another Region
D. Change the ALB in front of the Amazon EC2 instances in a round-robin configuration to balance traffic to the web tier

公司拥有一个多层应用程序,该应用程序运行在 Amazon EC2 Auto Scaling 组中六个前端网络服务器, Amazon EC2 Auto sca1ing 组位于应用程序负载均衡器（ALB）后面的单个可用区中。解决方案架构师在不修改应用程序的前提下，需要修改架构使其高度可用。解决方案架构师应该选择哪种架构以提供高度可用性？
A. 创建一个 Auto Sca1ing 组，该组在两个区域的每个区域使用三个实例
B. 修改 Auto Scaling 组，在两个可用区的每个可用区中使用三个实例
C. 创建一个 Auto Scaling 模板，用于快速创建其他区域中的更多实例。
D. 在循环配置中更改 Amazon EC2 实例前面的 ALB 以均衡网络层的流量
答案：B

36. A company is designing a web application using AWS that processes insurance quotes. Users will request quotes from the application Quotes must be separated by quote type, must be responded to within 24 hours, and must not be lost. The solution should be simple to set up and maintain
Which solution meets these requirements?
A. Create multiple Amazon Kinesis data streams based on the quote type. Configure the web application to send messages to the proper data stream. Configure each backend group of application servers to pool messages from its own data stream using the Kinesis Client Library （KCL）
B. Create multiple Amazon Simple Notification Service（Amazon SNS） topics and register Amazon SQS queues to their own SNS topic based on the quote type. Configure the web application to publish messages to the SNS topic queue. Configure each backend application server to work its own SQS queue.
C. Create a single Amazon Simple Notification Service（Amazon SNS） topic and subscribe the Amazon SQS queues to the SNS topic. Configure SNS message filtering to publish messages to the proper SQS queue based on the quote type. Configure each backend application server to work its own SQS queue
D. Create multiple Amazon Kinesis Data Firehose delivery streams based on the quote type to deliver data streams to an Amazon Elasticsearch Service（Amazon ES） cluster. Configure the web application to send messages to the proper delivery stream. Configure each backend group of application servers to search for the messages from Amazon ES and process
答案：B

37. A solutions architect is implementing a document review application using an Amazon S3 bucket for storage. The solution must prevent accidental deletion of the documents and ensure that all versions of the documents are available. Users must be able to download, modify, and upload documents
Which combination of actions should be taken to meet these requirements？ （Select Two）
A. Enable a read-only bucket ACL
B. Enable versioning on the bucket
C. Attach an IAM policy to the bucket.
D. Enable MFA Delete on the bucket
E. Encrypt the bucket using AWS KMS
答案：BD

38. A company allows its developers to attach existing lAM policies to existing IAM roles to enable faster experimentation and agility. However, the security operations team is concerned that the developers could attach the existing administrator policy, which would allow the developers to circumvent any other security policies.
How should a solutions architect address this issue?
A. Create an Amazon SNS topic to send an alert every time a developer creates a new policy.
B. Use service control policies to disable lAM activity across all accounts in the organizational unit.
C. Prevent the developers from attaching any policies and assign all lAM duties to the security operations team
D. Set an IAM permissions boundary on the developer lAM role that explicitly denies attaching the administrator policy
答案：D

39. A media streaming company collects real-time data and stores it in a disk-optimized database system. The company is not getting the expected throughput and wants an in-memory database storage solution that performs faster and provides high availability using data replication
Which database should a solutions architect recommend?
A. Amazon RDS for MySQL
B. Amazon RDS for PostgreSQL
C. Amazon ElastiCache for Redis
D. Amazon ElastiCache for Memcached

一家流媒体公司收集了实时数据并将其存储在了一个磁盘优化数据库系统中。公司并没有获得预期的吞吐量，希望获得一个非记忆数据库存储让运行速度更快，并能使用数据复制提供高可用性。解决方案架构师应该推荐哪个数据库？

A. Amazon RDS for MySQL
B. Amazon RDS for PostgreSQL
C. Amazon ElastiCache for Redis
D. Amazon ElastiCache for Memcached

答案：C

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

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

公司的生产应用程序在 Amazon RDS MySQL 数据库实例上运行联机事务处理（OLTP）业务。该公司正在启动一个新的报告工具用以访问相同的数据。该工具必须高度可用并且不影响生产应用程序的性能。这该如何实现？

A. 创建生产 RDS 数据库实例的每小时快照。
B. 创建生产 RDS 数据库实例的多可用区 RDS 只读副本图
C. 创建生产 RDS 数据库实例的多个 RDS 只读副本。将这些 RDS 只读副本放置在 Auto sca1ing 组
D. 创建生产 RDS 数据库实例的单可用区 RDS 只读副本。从它的副本创建第二个单可用区 RDS 只读副本

答案：B

41. A company's web application is using multiple Linux Amazon EC2 instances and storing data on Amazon EBS volumes. The company is looking for a solution to increase the resiliency of the application in case of a failure and to provide storage that complies with atomicity, consistency, isolation, and durability（ACID）
What should a solutions architect do to meet these requirements？

A. Launch the application on EC2 instances in each Availability Zone. Attach EBS volumes to each EC2 instance
B. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Mount an instance store on each EC2 instance
C. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Store data on Amazon EFS and mount a target on each instance
D. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Store data using Amazon S3 One Zone-Infrequent Access（S3 One Zone-IA）

答案：C

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

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

答案：BE

43. A company runs an application on a group of Amazon Linux EC2 instances. The application writes log files using standard API calls. For compliance reasons, all log files must be retained indefinitely and will be analyzed by a reporting tool that must access all files concurrently
Which storage service should a solutions architect use to provide the most cost-effective solution？

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

44. A company runs a multi-tier web application that hosts news content. The application runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an EC2 Auto Scaling group across multiple Availability Zones and use an Amazon Aurora database. A solutions architect needs to make the application more resilient to periodic increases in request rates
Which architecture should the solutions architect implement？（Select Two）
A. Add AWS Shield
B. Add Aurora Replicas
C. Add AWS Direct Connect
D. Add AWS Global Accelerator
E. Add an Amazon CloudFront distribution in front of the Application Load Balancer
答案：BE

45. A company has deployed an API in a VPC behind an internet-facing Application Load Balancer（ALB）. An application that consumes the API as a client is deployed in a second account in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. A solutions architect has configured the ALB to be internal
Which combination of architectural changes will reduce the NAT gateway costs？（Select TWO）
A. Configure a VPC peering connection between the two VPCs. Access the API using the private address
B. Configure an AWS Direct Connect Connection between the two VPCs. Access the API using the private address
C. Configure a ClassicLink connection for the API into the client VPC. Access the API using the ClassicLink address
D. Configure a PrivateLink connection for the API into the client VPC. Access the API using the PrivateLink address
E. Configure an AWS Resource Access Manager connection between the two accounts. Access the API using the private address
一家公司在面向互联网的应用程序负载均衡器（ALB）后面的 VPC 中部署 API。一个使用 API 作为客户端的应用程序被部署在 NAT 网关后面私有子网中的第二个账户中。当客户端应用程序的请求增加时，NAT 网关的开销高于预期。解决方案架构师将 ALB 配置为内部。哪种架构变更组合将减少 NAT 网关的开销？（选择两个。）
A. 在两个 VPC 间配置 VPC 对等连接。使用私有地址访问 API
B. 在两个 VPC 间配置 AWS Direct Connect 连接。使用私有地址访问 API
C. 为客户端 VPC 中的 API 配置 C1assiclink 连接。使用 C1assiclink 地址访间 API。
D. 为客户端 VPC 中的 API 配置 PrivateLink 连接。使用 PrivateLink 地址访问 API
E. 在两个账户间配置 AWS Resource Access Manager 连接。使用私有地址访 API
答案：AD

46. A company wants to migrate a high performance computing（HPC） application and data from on-premises to the AWS Cloud. The company uses tiered storage on premises with hot high-performance parallel storage to support the application during periodic runs of the application, and more economical cold storage to hold the data when the application is not actively running.
Which combination of solutions should a solutions architect recommend to support the storage needs of the application？（Select TWO）
A. Amazon S3 for cold data storage
B. Amazon EFS for cold data storage
C. Amazon S3 for high-performance parallel storage
D. Amazon FSx for Lustre for high-performance parallel storage
E. Amazon FSx for Windows for high-performance parallel storage
答案：AD

47. A security team wants to limit access to specific services or actions in all of the team's AWS accounts. All accounts belong to a large organization in AWS Organizations. The solution must be scalable and there must be a single point where permissions can be maintained.
What should a solutions architect do to accomplish this?

A. Create an ACL to provide access to the services or actions

B. Create a security group to allow accounts and attach it to user groups.

C. Create cross-account roles in each account to deny access to the services or actions

D. Create a service control policy in the root organizational unit to deny access to the services or actions

安全团队希望限制对团队全部 AWS 账户中特定服务或行动的访问。全部账户属于 AWS Organizations 中的一个大型组织。该解决方案必须可以扩展并且必须存在一维护权限的单一点。

为完成这一需求，解决方案架构师应该做什么？

A.创建 ACL，用来提供对服务或行动的访问。

B.创建安全组，用来允许账户并将其附加到用户组

C.在每个账户中创建跨账户角色，用来拒绝服务或行动的访问

D.在根组织单元创建服务控制策略，用来拒绝服务或行动的访问。

答案：D

48. A company has been storing analytics data in an Amazon RDS instance for the past few years. The company asked a solutions architect to find a solution that allows users to access this data using an API. The expectation is that the application will experience periods of inactivity but could receive bursts of traffic within seconds Which solution should the solutions architect suggest?

A. Set up an Amazon API Gateway and use Amazon ECS

B. Set up an Amazon API Gateway and use AWS Elastic Beanstalk

C. Set up an Amazon API Gateway and use AWS Lambda functions

D. Set up an Amazon API Gateway and use Amazon EC2 with Auto Scaling

答案：B

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

Which storage solution should the solutions architect use?

A. Amazon EBs

B. Amazon EC2 instance store

C. Amazon EFS

D. Amazon S3

答案：B

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

Which solution will meet these requirements?

A. AWS Direct Connect for both the initial transfer and ongoing connectivity

B. AWS Site-to-Site VPN for both the initial transfer and ongoing connectivity

C. AWS Snowball for the initial transfer and AWS Direct Connect for ongoing connectivity

D. AWS Snowball for the initial transfer and AWS Site-to-Site VPN for ongoing connectivity

答案：C

51. A solutions architect is designing a new service behind Amazon API Gateway. The request patterns for the service will be unpredictable and can change suddenly from 0 requests to over 500 per second. The total size of the data that needs to be persisted in a backend database is currently less than 1 GB with unpredictable future growth. Data can be queried using simple key-value requests.

Which combination of AWS services would meet these requirements？ （Select TWO)

A. AWS Fargate

B. AWS Lambda

C. Amazon DynamoDB

D. Amazon EC2 Auto Scaling

E. MySQL-compatible Amazon Aurora

解决方案架构师正在设计 Amazon API Gateway 后面的新服务。该服务的请求模式无法预测，每秒可能从 0 请求突然变至大于 500.需要在后台数据库中永久保留的数据总规模目前小于 1GB，未来增长量无法预测。数据可以使用简单的键值请求进行查询。哪一种 AWS 设备组合将满足这些需求（选择两个）

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

答案：BC

52. A company hosts a static website on-premises and wants to migrate the website to AWS. The website should load as quickly as possible for users around the world. The company also wants the most cost-effective solution
What should a solutions architect do to accomplish this?
A. Copy the website content to an Amazon S3 bucket. Configure the bucket to serve static webpage content. Replicate the S3 bucket to multiple AWS Regions
B. Copy the website content to an Amazon S3 bucket. Configure the bucket to serve static webpage content. Configure Amazon CloudFront with the S3 bucket as the origin
C. Copy the website content to an Amazon EBS-backed Amazon EC2 instance running Apache HTTP Server Configure Amazon Route 53 geolocation routing policies to select the closest origin
D. Copy the website content to multiple Amazon EBS-backed Amazon EC2 instances running Apache HTTP Server in multiple AWS Regions. Configure Amazon CloudFront geolocation routing policies to select the closest origin
答案：B

53. 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 SQSs 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 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 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
答案：C

54. A company has a legacy application that processes data in two parts. The second part of the process takes longer than the first, so the company has decided to rewrite the application as two microservices running on Amazon ECS that can scale independently
How should a solutions architect integrate the microservices?
A. Implement code in microservice 1 to send data to an Amazon S3 bucket. Use S3 event notifications to invoke microservice 2
B. Implement code in microservice 1 to publish data to an Amazon SNS topic. Implement code in microservice 2 to subscribe to this topic
C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose

D. Implement code in microservice 1 to send data to an Amazon SQS queue. Implement code in microservice 2 to process messages from the queue

答案：D

55. A company is running an ecommerce application on Amazon EC2. The application consists of a stateless web tier that requires a minimum of 10 instances, and a peak of 250 instances to support the application's usage. The application requires 50 instances 80% of the time.

Which solution should be used to minimize costs？

A. Purchase Reserved Instances to cover 250 instances

B. Purchase Reserved Instances to cover 80 instances. Use Spot Instances to cover the remaining instances

C. Purchase On-Demand Instances to cover 40 instances. Use Spot Instances to cover the remaining instances

D. Purchase Reserved Instances to cover 50 instances Use On-Demand and spot Instances to cover the remaining Instances

答案：D

56. A company wants to migrate a workload to AWS. The chief information security officer requires that all data be encrypted at rest when stored in the cloud. The company wants complete control of encryption key lifecycle management.

The company must be able to immediately remove the key material and audit key usage independently of AWS CloudTrail. The chosen services should integrate with other storage services that will be used on AWS

Which services satisfies these security requirements？

A. AWS CloudHSM with the CloudHSM client

B. AWS Key Management Service（AWS KMS）with AWS CloudHSM

C. AWS Key Management Service（AWS KMS） with an external key material origin

D. AWS Key Management Service（AWS KMS）with AWS managed customer master keys（CMKs）

答案：B

57. A data science team requires storage for nightly log processing. The size and number of logs is unknown and will persist for 24 hours only.

What is the MOST cost-effective solution？

A. Amazon S3 Glacier

B. Amazon S3 Standard

C. Amazon S3 Intelligent-Tiering

D. Amazon S3 One Zone-Infrequent Access（S3 One Zone-IA）

数据科学团队需要存储空间以进行每晚的日志处理。日志的大小和数量未知，并且仅保存 24 生小时。什么是最具成本效益的解决方案？

A. Amazon S3 Glacier

B. Amazon S3 Standard

C. Amazon S3 Intelligent-Tiering

D. Amazon S3 One Zone-Infrequent Access（S3 One Zone-IA）

答案：B

58. A web application is deployed in the AWS Cloud. It consists of a two-tier architecture that includes a web layer and a database layer. The web server is vulnerable to cross-site scripting（XSS）attacks.

What should a solutions architect do to remediate the vulnerability？

A. Create a Classic Load Balancer. Put the web layer behind the load balancer and enable AWS WAF.

B. Create a Network Load Balancer. Put the web layer behind the load balancer and enable AWS WAF.

C. Create an Application Load Balancer. Put the web layer behind the load balancer and enable AWS WAF.

D. Create an Application Load Balancer. Put the web layer behind the load balancer and use AWS Shield Standard

答案：C

59. A company needs a secure connection between its on-premises environment and AWS. This connection does not need high bandwidth and will handle a small amount of traffic. The connection should be set up quickly.

What is the MOST cost-effective method to establish this type of connection？

A. Implement a client VPN

B. Implement AWS Direct Connect

C. Implement a bastion host on Amazon EC2

D. Implement an AWS Site-to-Site VPN connection

答案：D

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

A. Create an Amazon CloudFront distribution and configure the ALB as an origin. Then update the Amazon Route 53 record to point to the CloudFront distribution

B. Create a latency-based Amazon Route 53 record for the ALB. Then launch new EC2 instances with larger instance sizes and register the instances with the ALB.

C. Launch new EC2 instances hosting the same web application in different Regions closer to the users. Then register the instances with the same ALB using cross-Region VPC peering

D. Host the website in an Amazon S3 bucket in the Regions closest to the users and delete the ALB and EC2 instances. Then update an Amazon Route 53 record to point to the S3 buckets

答案：A

61. A company's application runs on Amazon EC2 instances behind an Application Load Balancer（ALB）. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. On the first day of every month at midnight, the application becomes much slower when the month-end financial calculation batch executes. This causes the CPU utilization of the EC2 instances to immediately peak to 100%， which disrupts the application.

What should a solutions architect recommend to ensure the application is able to handle the workload and avoid downtime?

A. Configure an Amazon CloudFront distribution in front of the ALB

B. Configure an EC2 Auto Scaling simple scaling policy based on CPU utilization

C. Configure an EC2 Auto Scaling scheduled scaling policy based on the monthly schedule

D. Configure Amazon ElastiCache to remove some of the workload from the EC2 instances

答案：C

62. A company is migrating from an on-premises infrastructure to the AWS Cloud. One of the company's applications stores files on a Windows file server farm that uses Distributed File System Replication（DFSR）to keep data in sync. A solutions architect needs to replace the file server farm.

Which service should the solutions architect use?

A. Amazon EFS

B. Amazon FSx

C. Amazon S3

D. AWS Storage Gateway

一家公司正在从一个本地基础设施转移到 AWS 云上。公司的其中一个应用程序在 Windows 文件服务器集群存储文件，该服务器集群使用分布式文件系统复制（DFSR）来将数据保持同步。解决方案架构师需要取代该文件服务器集群。

解决方案架构师应该使用以下哪项服务？

A. Amazon EFS

B. Amazon FSx

C. Amazon S3

D. AWS Storage Gateway

答案：B

63. 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 security group 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

答案：AC

64. A company has NFS servers in an on-premises data center that need to periodically back up small amounts of data to Amazon S3

Which solution meets these requirements and is MOST cost-effective?

A. Set up AWS Glue to copy the data from the on-premises servers to Amazon S3

B. Set up an AWS DataSync agent on the on-premises servers, and sync the data to Amazon S3

C. Set up an SFTP sync using AWS Transfer for SFTP to sync data from on premises to Amazon S3

D. Set up an AWS Direct Connect connection between the on-premises data center and a VPC, and copy the data to Amazon S3

答案：B

65. A manufacturing company wants to implement predictive maintenance on its machinery equipment. The company will install thousands of loT sensors that will send data to AWS in real time. A solutions architect is tasked with implementing a solution that will receive events in an ordered manner for each machinery asset and ensure that data is saved for further processing at a later time.

Which solution would be MOST efficient?

A. Use Amazon Kinesis Data Streams for real-time events with a partition for each equipment asset. Use Amazon Kinesis Data Firehose to save data to Amazon S3

B. Use Amazon Kinesis Data Streams for real-time events with a shard for each equipment asset Use Amazon Kinesis Data Firehose to save data to Amazon EBS

C. Use an Amazon SQS FIFO queue for real-time events with one queue for each equipment asset. Trigger an AWS Lambda function for the SQS queue to save data to Amazon EFS

D. Use an Amazon SQS standard queue for real-time events with one queue for each equipment asset. Trigger an AWS Lambda function from the SQS queue to save data to Amazon S3

一家制造公司想要对其机械设备进行预测性维护。该公司将会安装数千个 1oT 传感器实时向 AWS 传输数据。解决方案架构师现在需要实施方案让每个机械资产都能够有序接受事件，并且确保数据能够被储存起来供之后的进一步处理。以下哪个解决方案最有效率？

A.在每个设备资产都配备一个分片的情况下使用 Amazon Kinesis Data streams 运行实时事件。使用 Amazon Kinesis Data Firehose 将数据保存到 Amazon S3 上

B.在每个设备资产都配备一个分区的情况下使用 Amazon Kinesis Data Streams 运行实时事件。使用 Amazon Kinesis Data firehose 将数据保存到 Amazon EBS 上。

C.在每个设备资产都配备一个队列的情况下使用 Amazon SQS FIFO 队列运行实时事件。为了在 Amazon EFS 上存储数据，由 SQS 队列启用 AWS Lambda 功能

D.在每个设备资产都配备一个队列的情况下使用 Amazon SQS 标准队列运行实时事件。为了在 Amazon S3 上存储数据，由 SQS 队列启用 AWS Lambda 功能。

答案：A

66. A solutions architect needs to design a managed storage solution for a company's application that includes high-performance machine learning.

This application runs on AWS Fargate and the connected storage needs to have concurrent access to files and deliver high performance.

Which storage option should the solutions architect recommend?

A. Create an Amazon S3 bucket for the application and establish an lAM role for Fargate to communicate with Amazon S3

B. Create an Amazon FSx for Lustre file share and establish an IAM role that allows Fargate to communicate with FSx for Lustre

C. Create an Amazon Elastic File System（Amazon EFS）file share and establish an IAM role that allows Fargate to communicate with Amazon EFS

D. Create an Amazon Elastic Block Store（Amazon EBS）volume for the application and establish an IAM role that allows Fargate to communicate with Amazon EBS.

答案：B

67. A bicycle sharing company is developing a multi-tier architecture to track the location of its bicycles during peak operating hours.
The company wants to use these data points in its existing analytics platform A solutions architect must determine the most viable multi-tier option to support this architecture.
The data points must be accessible from the REST API.
Which action meets these requirements for storing and retrieving location data？
A. Use Amazon Athena with Amazon S3
B. Use Amazon API Gateway with AWS Lambda
C. Use Amazon Quick Sight with Amazon Redshift
D. Use amazon API Gateway with Amazon Kinesis Data Analytics
答案：B

68. A company is managing health records on-premises. The company must keep these records indefinitely, disable any modifications to the records once they are stored, and granularly audit access at all levels. The chief technology officer （CTO）is concerned because there are already millions of records not being used by any application, and the current infrastructure is running out of space.The CTO has requested a solutions architect design a solution to move existing data and support future records.
Which services can the solutions architect recommend to meet these requirements？
A. Use AWS DataSync to move existing data to AWS. Use Amazon S3 to store existing and new data. Enable Amazon S3 object lock and enable AWS CloudTrail with data events

B. Use AWS Storage Gateway to move existing data to AWSUse Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with management events

C. Use AWS Data Sync to move existing data to AWS. Use Amazon S3 to store existing and new dataEnable Amazon S3 object lock and enable AWS CloudTrail with management events

D. Use AWS Storage Gateway to move existing data to AWS Use Amazon Elastic Block Store （Amazon EBS）to store existing and new data Enable Amazon S3 object lock and enable Amazon S3 server access logging
答案：A

69. A client reports that they want see an audit log of any changes made to AWS resources in their account What can the client do to achieve this？
A. Set up Amazon CloudWatch monitors on services they own
B. Enable AWS CloudTrail logs to be delivered to an Amazon S3 bucket
C. Use Amazon CloudWatch Events to parse logs
D. Use AWS OpsWorks to manage their resources
答案：B

70. An application running in a private subnet accesses an Amazon DynamoDB table. There is a security requirement that the data never leave the AWS network
How should this requirement be met？
A. Configure a network ACL on DynamoDB to limit traffic to the private subnet
B. Enable DynamoDB encryption at rest using an AWS KMS key
C. Add a NAT gateway and configure the route table on the private subnet
D. Create a VPC endpoint for DynamoDB and configure the endpoint policy
答案：D

71. A three-tier application is being created to host small news articles. The application is expected to serve millions of users. When breaking news occurs, the site must handle very large spikes in traffic without significantly impacting database performance
Which design meets these requirements while minimizing costs？
A. Use Auto Scaling groups to increase the number of Amazon EC2 instances delivering the web application
B. Use Auto Scaling groups to increase the size of the Amazon RDS instances delivering the database
C. Use Amazon DynamoDB strongly consistent reads to adjust for the increase in traffic
D. Use Amazon DynamoDB Accelerator （DAX）to cache read operations to the database
答案：D

72. During a review of business applications, a Solutions Architect identifies a critical application with a relational database that was built by a business user and is running on the user's desktop. To reduce the risk of a business interruption, the Solutions Architect wants to migrate the application to a highly available, multi-tiered solution in AWS What should the Solutions Architect do to accomplish this with the LEAST amount of disruption to the business?
A. Create an import package of the application code for upload to AWS Lambda, and include a function to create another Lambda function to migrate data into an Amazon RDS database
B. Create an image of the user's desktop, migrate it to Amazon EC2 using VM Import, and place the EC2 instance in an Auto Scaling group
C. Pre-stage new Amazon EC2 instances running the application code on AWS behind an Application Load Balancer and an Amazon RDS Multi-AZ DB instance
D. Use AWS DMS to migrate the backend database to an Amazon RDS Multi-AZ DB instance. Migrate the application code to AWS Elastic Beanstalk
答案：D

73. A company has thousands of files stored in an Amazon S3 bucket that has a well-defined access pattern. The files are accessed by an application multiple times a day for the first 30 days. Files are rarely accessed within the next 90 days. After that, the files are never accessed again. During the first 120 days, accessing these files should never take more than a few seconds
Which lifecycle policy should be used for the S3 objects to minimize costs based on the access pattern?
A. Use Amazon S3 Standard-Infrequent Access（S3 Standard-IA）storage for the first 30 days. Then move the files to the GLACIER storage class for the next 90 days. Allow the data to expire after that
B. Use Amazon S3 Standard storage for the first 30 days. Then move the files to Amazon S3 Standard-Infrequent Access（S3 Standard-IA）for the next 90 days. Allow the data to expire after that
C. Use Amazon S3 Standard storage for first 30 days. Then move the files to the GLACIER storage class for the next 90 days. Allow the data to expire after that
D. Use Amazon S3 Standard-Infrequent Access（S3 Standard-IA）for the first 30 days After that move the data to the GLACIER storage class, where is will be deleted automatically
答案：B

74. A company creates business-critical 3D images every night. The images are batch-processed every Friday and require an uninterrupted 48 hours to complete.
What is the MOST cost-effective Amazon EC2 pricing model for this scenario?
A. On-Demand Instances
B. Scheduled Reserved Instances
C. Reserved Instances
D. Spot Instances
答案：B

75. An application generates audit logs of operational activities. Compliance requirements mandate that the application retain the logs for 5 years
How can these requirements be met?
A. Save the logs in an Amazon S3 bucket and enable Multi-Factor Authentication Delete（MFA Delete）on the bucket
B. Save the logs in an Amazon EFS volume and use Network File System version 4（NFSv4）locking with the volume
C. Save the logs in an Amazon Glacier vault and use the vault lock feature
D. Save the logs in an Amazon EBS volume and take monthly snapshots
答案：C

76. A Solutions Architect is creating an application running in an Amazon VPC that needs to access AWS Systems Manager Parameter Store. Network security rules prohibit any route table entry with a 0.0.0.0/0 destination.
What infrastructure addition will allow access to the AWS service while meeting the requirements?
A. VPC peering
B. NAT instance
C. NAT gateway
D. AWS PrivateLink
答案：D

77. A photo-sharing website running on AWS allows users to generate thumbnail images of photos stored in Amazon S3. An Amazon DynamoDB table maintains the locations of photos, and thumbnails are easily re-created from the originals if they are accidentally deleted

How should the thumbnail images be stored to ensure the lOWEST cost?

A. Amazon S3 Standard-Infrequent Access（S3 Standard-IA）with cross-region replication

B. Amazon S3

C. Amazon Glacier

D. Amazon S3 with cross-region replication

答案：B

78. A company is implementing a data lake solution on Amazon S3. Its security policy mandates that the data stored in Amazon S3 should be encrypted at rest

Which options can achieve this？ （Select TWO）

A. Use S3 server-side encryption with an Amazon EC2 key pair.

B. Use S3 server-side encryption with customer-provided keys （SSE-C）

C. Use S3 bucket policies to restrict access to the data at rest

D. Use client-side encryption before ingesting the data to Amazon S3 using encryption keys

E. Use SSL to encrypt the data while in transit to Amazon S3

答案：BD

79. A marketing company is storing CSV files in an Amazon S3 bucket for statistical analysis. An application on an Amazon EC2 instance needs permission to efficiently process the CSV data stored in the S3 bucket.

Which action will MOST securely grant the EC2 instance access to the S3 bucket？

A. Attach a resource-based policy to the S3 bucket

B. Create an lAM user for the application with specific permissions to the S3 bucket

C. Associate an IAM role with least privilege permissions to the EC2 instance profile

D. Store AWS credentials directly on the EC2 instance for applications on the instance to use for API calls

答案：C

80. You are trying to launch an EC2 instance, however the instance seems to go into a terminated status immediately. What would probably not be a reason that this is happening？

A. The AMI is missing a required part

B. The snapshot is corrupt

C. You need to create storage in EBS first

D. You've reached your volume limit

答案：C

81. You have set up an Auto Scaling group. The cool down period for the Auto Scaling group is 7 minutes. The first instance is launched after 3 minutes, while the second instance is launched after 4 minutes. How many minutes after the first instance is launched will Auto Scaling accept another scaling activity request？

A. 11 minutes

B. 7 minutes

C. 10 minutes

D. 14 minutes

答案：A

82. In Amazon EC2 Container Service components, what is the name of a logical grouping of container instances on which you can place tasks？

A. A cluster

B. A container instance

C. A container

D. A task definition

答案：A

83. In the context of AWS support, why must an EC2 instance be unreachable for 20 minutes rather than allowing customers to open tickets immediately ?

A. Because most reachability issues are resolved by automated processes in less than 20 minutes
B. Because all EC2 instances are unreachable for 20 minutes every day when AWS does routine maintenance
C. Because all EC2 instances are unreachable for 20 minutes when first launched
D. Because of all the reasons listed here
答案：A

84. Can a user get a notification of each instance start /terminate configured with Auto scaling？
A. Yes, if configured with the Launch Config
B. Yes, always
C. Yes, if configured with the Auto Scaling group
D. No
答案：C

85. Amazon EBS provides the ability to create backups of any Amazon EC2 volume into what is known as
A. snapshots
B. images
C. instance backups
D. mirrors
答案：A

86. To specify a resource in a policy statement, in Amazon EC2， can you use its Amazon Resource Name（ARN）？
A. Yes, you can
B. No, you can't because EC2 is not related to ARN
C. No, you can't because you can't specify a particular Amazon EC2 resource in an IAM policy
D. Yes, you can but only for the resources that are not affected by the action
答案：A

87. After you recommend Amazon Redshift to a client as an alternative solution to paying data warehouses to analyze his data, your client asks you to explain why you are recommending Redshift. Which of the following would be a reasonable response to his request？
A. It has high performance at scale as data and query complexity grows
B. It prevents reporting and analytic processing from interfering with the performance of OLTP workloads
C. You don't have the administrative burden of running your own data warehouse and dealing with setup, durability, monitoring, scaling, and patching
D. All answers listed are a reasonable response to his question
答案：D

88. One of the criteria for a new deployment is that the customer wants to use AWS Storage Gateway. However you are not sure whether you should use gateway-cached volumes or gateway-stored volumes or even what the differences are. Which statement below best describes those differences?
A. Gateway-cached lets you store your data in Amazon Simple Storage Service（Amazon S3）and retain a copy of frequently accessed data subsets locally
Gateway-stored enables you to configure your on-premises gateway to store all your data locally and then asynchronously back up point-in-time snapshots of this data to Amazon S3.
B. Gateway-cached is free whilst gateway-stored is not
C. Gateway-cached is up to 10 times faster than gateway-stored
D. Gateway-stored lets you store your data in Amazon Simple Storage Service（Amazon S3）and retain a copy of frequently accessed data subsets locally
Gateway-cached enables you to configure your on-premises gateway to store all you data locally and the asynchronously back up point-in-time snapshots of this data to Amazon S3
答案：A

89. A user is launching an EC2 instance in the US East region. Which of the below mentioned options is recommended by AWS with respect to the selection of the availability zone?
A. Always select the AZ while launching an instance
B. Always select the US-East-1-a zone for HA

C. Do not select the AZ. instead let AWS select the AZ

D. The user can never select the availability zone while launching an instance

答案：C

90. A company has on-premises servers running a relational database.

The current database serves high read traffic for users in different locations

The company wants to migrate to AWS with the least amount of effort

The database solution should support disaster recovery and not affect the company's current traffic flow

Which solution meets these requirements?

A. Use a database in Amazon RDS with Multi-AZ and at least one read replica

B. Use a database in Amazon RDS with Multi-AZ and at least one standby replica

C. Use databases hosted on multiple Amazon EC2 instances in different AWS Regions

D. Use databases hosted on Amazon EC2 instances behind an Application Load Balancer in different Availability Zones

答案：A

91. A company's application is running on Amazon EC2 instances within an Auto Scaling group behind an Elastic Load Balancer.

Based on the application's history, the company anticipates a spike in traffic during a holiday each year.

A solutions architect must design a strategy to ensure that the Auto Scaling group proactively increases capacity to minimize any performance impact on application users

Which solution will meet these requirements?

A. Create an Amazon CloudWatch alarm to scale up the EC2 instances when CPU utilization exceeds 90%

B. Create a recurring scheduled action to scale up the Auto Scaling group before the expected period of peak demand

C. Increase the minimum and maximum number of EC2 instances in the Auto Scaling group during the peak demand period

D. Configure an Amazon Simple Notification Service（Amazon SNS） notification to send alerts when there are auto scaling EC2_INSTANCE_LAUNCH events

答案：B

92. A user is storing a large number of objects on AWS S3. The user wants to implement the search functionality among the objects. How can the user achieve this?

A. Use the indexing feature of S3

B. Tag the objects with the metadata to search on that

C. Use the query functionality of S3

D. Make your own DB system which stores the S3 metadata for the search functionality

答案：D

93. After setting up a Virtual Private Cloud（VPC） network, a more experienced cloud engineer suggests that to achieve low network latency and high network throughput you should look into setting up a placement group. You know nothing about this, but begin to do some research about it and are especially curious about its limitations. Which of the below statements is wrong in describing the limitations of a placement group?

A. Although launching multiple instance types into a placement group is possible, this reduces the likelihood that the required capacity will be available for your launch to succeed.

B. A placement group can span multiple Availability Zones

C. You can't move an existing instance into a placement group

D. A placement group can span peered VPCs

答案：B

94. What is a placement group in Amazon EC2?

A. It is a group of EC2 instances within a single Availability Zone

B. It the edge location of your web content

C. It is the AWS region where you run the EC2 instance of your web content

D. It is a group used to span multiple Availability Zones

答案：A

95. You are migrating an internal server on your DC to an EC2 instance with EBS volume. Your server disk usage is around 500GB so you just copied all your data to a 2TB disk to be used with AWS Import/Export. Where will the data be imported once it arrives at Amazon?
A. to a 2TB EBS volume
B. to an S3 bucket with 2 objects of 1TB
C. to an 500GB EBS volume
D. to an S3 bucket as a 2TB snapshot
答案：B

96. A client needs you to import some existing infrastructure from a dedicated hosting provider to AWS to try and save on the cost of running his current website. He also needs an automated process that manages backups, software patching, automatic failure detection, and recovery. You are aware that his existing set up currently uses an Oracle database. Which of the following AWS databases would be best for accomplishing this task?
A. Amazon RDS
B. Amazon Redshift
C. Amazon SimpleDB
D. Amazon ElastiCache
答案：A

97. True or false: A VPC contains multiple subnets, where each subnet can span multiple Availability Zones
A. This is true only if requested during the set-up of VPC
B. This is true
C. This is false
D. This is true only for US regions
答案：C

98. An edge location refers to which Amazon Web Service?
A. An edge location is refered to the network configured within a Zone or Region
B. An edge location is an AWS Region
C. An edge location is the location of the data center used for Amazon Cloud Front
D. An edge location is a Zone within an AWS Region
答案：C

99. You are looking at ways to improve some existing infrastructure as it seems a lot of engineering resources are being taken up with basic management and monitoring tasks and the costs seem to be excessive. You are thinking of deploying Amazon ElasticCache to help. Which of the following statements is true in regards to ElasticCache?
A. You can improve load and response times to user actions and queries however the cost associated with scaling web applications will be more
B. You can't improve load and response times to user actions and queries but you can reduce the cost associated with scaling web applications
C. You can improve load and response times to user actions and queries however the cost associated with scaling web applications will remain the same
D. You can improve load and response times to user actions and queries and also reduce the cost associated with scaling web applications
答案：D

100. Do Amazon EBS volumes persist independently from the running life of an Amazon EC2 instance?
A. Yes, they do but only if they are detached from the instance
B. No, you cannot attach EBS volumes to an instance
C. No, they are dependent
D. Yes, they do
答案：D

101. Your supervisor has asked you to build a simple file synchronization service for your department. He doesn't want to spend too much money and he wants to be notified of any changes to files by email. What do you think would be the best Amazon service to use for the email solution?

A. Amazon SES
B. Amazon CloudSearch
C. Amazon SWF
D. Amazon AppStream
答案：A

102. A company hosts an application on multiple Amazon EC2 instances.

The application processes messages from an Amazon SQS queue writes to an Amazon RDS table and deletes the message from the queue Occasional duplicate records are found in the RDS table.

The SQS queue does not contain any duplicate messages.

What should a solutions archived do to ensure messages are being processed once only?

A. Use the Create Queue API call to create a new queue
B. Use the AddPermission API call to add appropriate permissions
C. Use the Receive Message API call to set an appropriate wait time
D. Use the Change MessageVisibility API call to increase the visibility timeout

答案：D

103. An Amazon EC2 administrator created the following policy associated with an lAM group containing several users

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "ec2:TerminateInstances",
            "Resources": "*",
            "Condition": {
                "IpAddress": {
                    "aws:SourceIp": "10.100.100.0/24"
                }
            }
        },
        {
            "Effect": "Deny",
            "Action": "ec2:*",
            "Resources": "*",
            "Condition": {
                "StringNotEquals": {
                    "ec2:Region": "us-east-1"
                }
            }
        }
    ]
}
```

What is the effect of this policy?

A. Users can terminate an EC2 instance in any AWS Region except us-east-1
B. Users can terminate an EC2 instance with the IP address 10.100 1001 in the us-east- 1 Region
C. Users can terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100.100.254
D. Users cannot terminate an EC2 instance in the us-east- 1 Region when the user's source IP is 10.100.100.254

答案：A

104. Does DynamoDB support in-place atomic updates?

A. Yes
B. No
C. It does support in-place non-atomic updates
D. It is not defined

答案：A

105. Your manager has just given you access to multiple VPN connections that someone else has recently set up between all your company's offices. She needs you to make sure that the communication between the VPNs is secure. Which of the following services would be best for providing a low-cost hub-and-spoke model for primary or backup connectivity between these remote offices?

A. Amazon CloudFront

B. AWS Direct Connect

C. AWS CloudHSM

D. AWS VPN CloudHiub

答案：D

106. Amazon EC2 provides a _____. It is an HTTP or HTTPS request that uses the HTTP verbs GET or POST.

A. web database

B. .net framework

C. Query API

D. C library

答案：C

107. In Amazon AWS, which of the following statements is true of key pairs？

A. Key pairs are used only for Amazon SDKs

B. Key pairs are used only for Amazon EC2 and Amazon CloudFront

C. Key pairs are used only for Elastic Load Balancing and AWS IAM

D. Key pairs are used for all Amazon services

答案：B

108. Does Amazon DynamoDB support both increment and decrement atomic operations？

A. Only increment, since decrement are inherently impossible with DynamoDB's data model

B. No, neither increment nor decrement operations

C. Yes, both increment and decrement operations

D. Only decrement, since increment are inherently impossible with DynamoDB's data model

答案：C

109. An organization has three separate AWS accounts, one each for development, testing, and production. The organization wants the testing team to have access to certain AWS resources in the production account. How can the organization achieve this?

A. It is not possible to access resources of one account with another account

B. Create the IAM roles with cross account access

C. Create the IAM user in a test account, and allow it access to the production environment with the IAM policy.

D. Create the lAM users with cross account access

答案：B

110. You need to import several hundred megabytes of data from a local Oracle database to an Amazon RDS DB instance. What does AWS recommend you use to accomplish this?

A. Oracle export/import utilities

B. Oracle SQL Developer

C. Oracle Data Pump

D. DBMS_FILE_TRANSFER

答案：C

111. A user has created an EBS volume with 1000 IOPS. What is the average lOPS that the user will get for most of the year as per EC2 SLA if the instance is attached to the EBS optimized instance？

A.950

B.990

C.1000

D.900

答案：D

112. You need to migrate a large amount of data into the cloud that you have stored on a hard disk and you decide that the best way to accomplish this is with AWS Import/Export and you mail the hard disk to AWS. Which of the following statements is incorrect in regards to AWS Import/Export?

A. It can export from Amazon S3

B. It can Import to Amazon Glacier

C. It can export from Amazon Glacier.

D. It can Import to amazon EBS

答案：C

113. You are in the process of creating a Route 53 DNS failover to direct traffic to two EC2 zones. Obviously, if one fails, you would like Route 53 to direct traffic to the other region. Each region has an ELB with some instances being distributed. What is the best way for you to configure the Route 53 health check?

A. Route 53 doesn't support ELB with an internal health check. You need to create your own Route 53 health check of the ELB

B. Route 53 natively supports ELB with an internal health check. Turn "Evaluate target health" off and "Associate with health Check" on and R53 will use the ELB's internal health check

C. Route 53 doesn't support ELB with an internal health check. You need to associate your resource record set for the ELB with your own health check

D. Route 53 natively supports ELB with an internal health check. Turn "Evaluate target health" on and "Associate with health Check" off and R53 will use the ELB's internal health check

答案：D

114. A user wants to use an EBS-backed Amazon EC2 instance for a temporary job. Based on the input data, the job is most likely to finish within a week. Which of the following steps should be followed to terminate the instance automatically once the job is finished?

A. Configure the EC2 instance with a stop instance to terminate it.

B. Configure the EC2 instance with ELB to terminate the instance when it remains idle

C. Configure the CloudWatch alarm on the instance that should perform the termination action once the instance is idle

D. Configure the Auto Scaling schedule activity that terminates the instance after 7 days

答案：C

115. Which of the following is true of Amazon EC2 security group?

A. You can modify the outbound rules for EC2-Classic

B. You can modify the rules for a security group only if the security group controls the traffic for just one instance

C. You can modify the rules for a security group only when a new instance is created

D. You can modify the rules for a security group at any time.

答案：D

116. An Elastic IP address（EIP）is a static IP address designed for dynamic cloud computing. With an EIP, you can mask the failure of an instance or software by rapidly remapping the address to another instance in your account. Your EIP is associated with your AWS account, not a particular EC2 instance, and it remains associated with your account until you choose to explicitly release it.

By default how many EIPs is each AWS account limited to on a per region basis?

A.1

B.5

C. Unlimited

D.10

答案：B

117. 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-time and on-demand streaming?

A. Amazon Cloud Front

B. AWS Global Accelerator

C. Amazon Route 53

D. Amazon S3 Transfer Acceleration

答案：A

118. In Amazon EC2，partial instance-hours are billed

A. per second used in the hour
B. per minute used
C. by combining partial segments into full hours
D. as full hours
答案：D

119. In EC2，what happens to the data in an instance store if an instance reboots（either intentionally or unintentionally）？
A. Data is deleted from the instance store for security reasons
B. Data persists in the instance store
C. Data is partially present in the instance store
D. Data in the instance store will be lost
答案：B

120. You are setting up a VPC and you need to set up a public subnet within that VPC. Which following requirement must be met for this subnet to be considered a public subnet？
A. Subnet's traffic is not routed to an internet gateway but has its traffic routed to a virtual private gateway.
B. Subnet's traffic is routed to an internet gateway
C. Subnet's traffic is not routed to an internet gateway
D. None of these answers can be considered a public subnet.
答案：B

121. Can you specify the security group that you created for a VPC when you launch an instance in EC2-Classic?
A. No, you can specify the security group created for EC2-Classic when you launch a VPC instance
B. No
C. Yes
D. No, you can specify the security group created for EC2-Classic to a non-VPC based instance only
答案：B

122. While using the EC2 GET requests as URLS, the   is the URL that serves as the entry point for the web service
A. token
B. endpoint
C. action
D. None of these
答案：B

123. You have been asked to build a database warehouse using Amazon Redshift. You know a little about it, including that it is a SQL data warehouse solution, and uses industry standard ODBC and JDBC connections and PostgreSQL drivers. However you are not sure about what sort of storage it uses for database tables. What sort of storage does Amazon Redshift use for database tables
A. InnoDB Tables
B. NDB data storage
C. Columnar data storage
D. NDB CLUSTER Storage
答案：C

124. You are checking the workload on some of your General Purpose（SSD）and Provisioned IOPS (SSD）volumes and it seems that the l/O latency is higher than you require. You should probably check the   to make sure that your application is not trying to drive more IOPS than you have provisioned
A. Amount of IOPS that are available
B. Acknowledgement from the storage subsystem
C. Average queue length
D. Time it takes for the l/O operation to complete
答案：C

125. Which of the below mentioned options is not available when an instance is launched by Auto Scaling with EC2 Classic?
A. Public IP
B. Elastic IP
C. Private DNS
D. Private IP
答案：B

126. You have been given a scope to deploy some AWS infrastructure for a large organisation. The requirements are that you will have a lot of EC2 instances but may need to add more when the average utilization of your Amazon EC2 fleet is high and conversely remove them when CPU utilization is low. Which AWS services would be best to use to accomplish this?
A. Auto Scaling, Amazon CloudWatch and AWS Elastic Beanstalk
B. Auto Scaling, Amazon CloudWatch and Elastic Load Balancing
C. Amazon Cloud Front, Amazon CloudWatch and Elastic Load Balancing
D. AWS Elastic Beanstalk, Amazon CloudWatch and Elastic Load Balancing
答案：B

127. A company has a three-tier image-sharing application it uses an Amazon EC2 instance for the front-end layer, another for the backend tier, and a third for the MySQL database.
A solutions architect has been tasked with designing a solution that is highly available, and requires the least amount of changes to the application
Which solution meets these requirements?
A. Use Amazon S3 to host the front-end layer and AWS Lambda functions for the backend layer. Move the database to an Amazon DynamoDB table and use Amazon S3 to store and serve users' images
B. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layers.
Move the database to an Amazon RDS instance with multiple read replicas to store and serve users' images
C. Use Amazon S3 to host the front-end layer and a fleet of Amazon EC2 instances in an Auto Scaling group for the backend layer.
Move the database to a memory optimized instance type to store and serve users' images
D. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layers Move the database to an Amazon RDS instance with a Multi-AZ deployment Use Amazon S3 to store and serve users' images
答案：D

128. You are building infrastructure for a data warehousing solution and an extra request has come through that there will be a lot of business reporting queries running all the time and you are not sure if your current DB instance will be able to handle it. What would be the best solution for this?
A. DB Parameter Groups
B. Read Replicas
C. Multi-AZ DB Instance deployment
D. Database Snapshots
答案：B

129. In DynamoDB, could you use lAM to grant access to Amazon DynamoDB resources and API actions?
A. In DynamoDB there is no need to grant access
B. Depended to the type of access
C. NO
D. Yes
答案：D

130. Much of your company's data does not need to be accessed often and can take several hours for retrieval time, so it's stored on Amazon Glacier. However someone within your organization has expressed concerns that his data is more sensitive than the other data, and is wondering whether the high level of encryption that he knows is on S3 is also used on the much cheaper Glacier service. Which of the following statements would be most applicable in regards to this concern?
A. There is no encryption on Amazon Glacier, that's why it is cheaper.

B. Amazon Glacier automatically encrypts the data using AES-128 a lesser encryption method than Amazon S3 but you can change it to AES-256 if you are willing to pay more

C. Amazon Glacier automatically encrypts the data using AES-256， the same as Amazon S3

D. Amazon Glacier automatically encrypts the data using AES-128 a lesser encryption method than Amazon S3

答案：C

131. Your EBS volumes do not seem to be performing as expected and your team leader has requested you look into improving their performance. Which of the following is not a true statement relating to the performance of your EBS volumes?

A. Frequent snapshots provide a higher level of data durability and they will not degrade the performance of your application while the snapshot is in progress

B. General Purpose（SSD）and Provisioned IOPS（SSD）volumes have a throughput limit of 128 MB/s per volume

C. There is a relationship between the maximum performance of your EBS volumes, the amount of I/O you are driving to them, and the amount of time it takes for each transaction to complete

D. There is a 5 to 50 percent reduction in IOPS when you first access each block of data on a newly created or restored EBS volume

答案：A

132. You've created your first load balancer and have registered your EC2 instances with the load balancer. Elastic Load Balancing routinely performs health checks on all the registered EC2 instances and automatically distributes all incoming requests to the DNS name of your load balancer across your registered, healthy EC2 instances. By default, the load balancer uses the _____ protocol for checking the health of your instances

A. HTTPS

B. HTTP

C. ICMP

D. IPv6

答案：B

133. A major finance organisation has engaged your company to set up a large data mining application. Using AWS you decide the best service for this is Amazon Elastic Map Reduce（EMR）which you know uses Hadoop. Which of the following statements best describes Hadoop?

A. Hadoop is 3rd Party software which can be installed using AMI

B. Hadoop is an open source python web framework

C. Hadoop is an open source Java software framework

D. Hadoop is an open source javascript framework

答案：C

134. In Amazon EC2 Container Service, are other container types supported?

A. Yes, EC2 Container Service supports any container service you need

B. Yes, EC2 Container Service also supports Microsoft container service

C. No, Docker is the only container platform supported by EC2 Container Service presently

D. Yes, EC2 Container Service supports Microsoft container service and Openstack

答案：C

135. A Solutions Architect is designing the architecture for a web application that will be hosted on AWS. Internet users will access the application using HTTP and HTTPS.

How should the Architect design the traffic control requirements?

A. Use a network ACL to allow outbound ports for HTTP and HTTPS. Deny other traffic for inbound and outbound

B. Use a network ACL to allow inbound ports for HTTP and HTTPS. Deny other traffic for inbound and outbound C. Allow inbound ports for HTTP and HTTPS in the security group used by the web servers

D. Allow outbound ports for HTTP and HTTPS in the security group used by the web servers

答案：C

136. A solutions architect is designing a system to analyze the performance of financial markets while the markets are closed.

The system will run a series of compute-intensive jobs for 4 hours every night.

The time to complete the compute jobs is expected to remain constant, and jobs cannot be interrupted once started

Once completed, the system is expected to run for a minimum of 1 year.

Which type of Amazon EC2 instances should be used to reduce the cost of the system？

A. Spot Instances

B. On-Demand Instances

C. Standard Reserved Instances

D. Scheduled Reserved Instances

答案：D

137. A company built a food ordering application that captures user data and stores it for future analysis.

The application's static front end is deployed on an Amazon EC2 instance.

The front-end application sends the requests to the backend application running on separate EC2 Instance.

The backend application then stores the data in Amazon RDS

What should a solutions architect do to decouple the architecture and make it scalable

A. Use Amazon S3 to serve the front-end application which sends requests to Amazon EC2 to execute the backend application. The backend application will process and store the data in Amazon RDS

B. Use Amazon S3 to serve the front-end application and write requests to an Amazon Simple Notification Service（Amazon SNS）topic. Subscribe Amazon EC2 instances to the HTTP/HTTPS endpoint of the topic and process and store the data in Amazon EDS

C. Use an EC2 instance to serve the front end and write requests to an Amazon SQS queue. Place the backend instance in an Auto Scaling group and scale based on the queue depth to process and store the data in Amazon RDS

D. Use Amazon S3 to serve the static front-end application and send requests to Amazon API Gateway which writes the requests to an Amazon SQS queue. Place the backend instances in an Auto Scaling group and scale based on the queue depth to process and store the data in Amazon RDS

答案：D

138. A Solutions Architect must design a web application that will be hosted on AWS, allowing users to purchase access to premium, shared content that is stored in an S3 bucket.

Upon payment, content will be available for download for 14 days before the user is denied access.

Which of the following would be the LEAST complicated implementation？

A. Use an Amazon Cloud Front distribution with an origin access identity（OAI）

Configure the distribution with an Amazon S3 origin to provide access to the file through signed URLs

Design a Lambda function to remove data that is older than 14 days

B. Use an S3 bucket and provide direct access to the tile

Design the application to track purchases in a DynamoDH table

Configure a Lambda function to remove data that is older than 14 days based on a query to Amazon DynamoDB

C. Use an Amazon Cloud Front distribution with an OAI

Configure the distribution with an Amazon S3 origin to provide access to the file through signed URLs

Design the application to sot an expiration of 14 days for the URL

D. Use an Amazon CloudFront distribution with an OAl

Configure the distribution with an Amazon S3 origin to provide access to the file through signed URLs

Design the application to set an expiration of 60 minutes for the URL and recreate the URL as necessary

答案：C

139. A company wants to host a scalable web application on AWS.

The application will be accessed by users from different geographic regions of the world.

Application users will be able to download and upload unique data up to gigabytes in size.

The development team wants a cost-effective solution to minimize upload and download latency and maximize performance.

What should a solutions architect do to accomplish this？

A. Use Amazon S3 with Transfer Acceleration to host the application

B. Use Amazon S3 with Cache Control headers to host the application

C. Use Amazon EC2 with Auto Scaling and Amazon CloudFront to host the application

D. Use Amazon EC2 with Auto Scaling and Amazon ElastiCache to host the application.

答案：C

140. A company captures clickstream data from multiple websites and analyzes it using batch processing.

The data is loaded nightly into Amazon Redshift and is consumed by business analysts.

The company wants to move towards near-real-time data processing for timely insights.

The solution should process the streaming data with minimal effort and operational overhead.

Which combination of AWS services are MOST cost-effective for this solution？（Choose two)

A. Amazon EC2

B. AWS Lambda

C. Amazon Kinesis Data Streams

D. Amazon Kinesis Data Firehose

E. Amazon Kinesis Data Analytics

答案：DE

141. A company is migrating a three-tier application to AWS.

The application requires a MySQL database. In the past, the application users reported poor application performance when creating new entries.

These performance issues were caused by users generating different real-time reports from the application duringworking hours.

Which solution will improve the performance of the application when it is moved to AWS？

A. Import the data into an Amazon DynamoDB table with provisioned capacity.

Refactor the application to use DynamoDB for reports

B. Create the database on a compute optimized amazon EC2 instance.

Ensure compute resources exceed the on-premises database `

C. Create an Amazon Aurora MySQL Multi-AZ DB cluster with multiple read replicas.

Configure the application reader endpoint for reports

D. Create an Amazon Aurora MySQL Multi-AZ DB cluster.

Configure the application to use the backup instance of the cluster as an endpoint for the reports

答案：C

142. A start-up company has a web application based in the us-east-1 Region with multiple Amazon EC2 instances running behind an Application Load Balancer across multiple Availability Zones.

As the company's user base grows in the us-west-1 Region, it needs a solution with low latency and high availability.

What should a solutions architect do to accomplish this？

A. Provision EC2 instances in us-west-1

Switch the Application Load Balancer to a Network Load Balancer to achieve cross-Region load balancing

B. Provision EC2 instances and an Application Load Balancer in us-west-1

Make the load balancer distribute the traffic based on the location of the request

C. Provision EC2 instances and configure an Application Load Balancer in us-west-1

Create an accelerator in AWS Global Accelerator that uses an endpoint group that includes the load balancer endpoints in both Regions

D. Provision EC2 instances and configure an Application Load Balancer in us-west-1

Configure Amazon Route 53 with a weighted routing policy Create alias records in Route 53 that point to the Application Load Balancer.

答案：C

143. A company is planning to migrate a business-critical dataset to Amazon S3.

The current solution design uses a single S3 bucket in the us-east-1 Region with versioning enabled to store the dataset.

The company's disaster recovery policy states that all data multiple AWS Regions.

How should a solutions architect design the S3 solution？

A. Create an additional S3 bucket in another Region and configure cross-Region replication

B. Create an additional S3 bucket in another Region and configure cross-origin resource sharing（CORS）

C. Create an additional S3 bucket with versioning in another region and configure cross-Region replication

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

答案：C

144. A company has application running on Amazon EC2 instances in a VPC.

One of the applications needs to call an Amazon S3 API to store and read objects.

The company's security policies restrict any internet-bound traffic from the applications.

Which action will fulfill these requirements and maintain security？

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

答案：B

145. **A company's web application uses an Amazon RDS PostgreSQL DB instance to store its application data. During the financial closing period at the start of every month. Accountants run large queries that impact the database's performance due to high usage.**

The company wants to minimize the impact that the reporting activity has on the web application.

What should a solutions architect do to reduce the impact on the database with the LEAST amount of effort？

A. Create a read replica and direct reporting traffic to the replica

B. Create a Multi-AZ database and direct reporting traffic to the standby

C. Create a cross-Region read replica and direct reporting traffic to the replica

D. Create an Amazon Redshift database and direct reporting traffic to the Amazon Redshift database

答案：A

146. **A company must generate sales reports at the beginning of every month.**

The reporting process launches 20 Amazon EC2 instances on the first of the month.

The process runs for 7 days and cannot be interrupted. The company wants to minimize costs.

Which pricing model should the company choose？

A. Reserved Instances

B. Spot Block Instances

C. On-Demand Instances

D. Scheduled Reserved Instances

答案：D

147. **A company is hosting a website behind multiple Application Load Balancers.**

The company has different distribution rights for its content around the world.

A solutions architect needs to ensure that users are served the correct content without violating distribution rights.

Which configuration should the solutions architect choose to meet these requirements？

A. Configure Amazon Cloud Front with AWS WAF

B. Configure Application Load Balancers with AWS WAF.

C. Configure Amazon Route 53 with a geolocation policy

D. Configure Amazon Route 53 with a geoproximity routing policy

答案：C

148. **A company's website is using an Amazon RDS MySQL Multi-AZ DB instance for its transactional data storage.**

There are other internal systems that query this DB instance to fetch data for internal batch processing.

The RDS DB instance slows down significantly the internal systems fetch data.

This impacts the website's read and write performance, and the users experience slow response times

Which solution will improve the website's performance？

A. Use an RDS PostgreSQL DB instance instead of a MySQL database

B. Use Amazon ElastiCache to cache the query responses for the website

C. Add an additional Availability Zone to the current RDs MySQL Multi AZ DB instance

D. Add a read replica to the RDS DB instance and configure the internal systems to query the read replica.

答案：D

149. **A solutions architect is designing storage for a high performance computing（HPC）environment based on Amazon Linux .The workload stores and processes a large amount of engineering drawings that require shared storage and heavy computing.**

Which storage option would be the optimal solution？

A. Amazon Elastic File System（Amazon EFS）

B. Amazon FSx for Lustre
C. Amazon EC2 instance store
D. Amazon EBS Provisioned IOPS SSD （io1）
答案：B

150. A company is performing an AWS Well-Architected Framework review of an existing workload deployed on AWS.
The review identified a public-facing website running on the same Amazon EC2 instance as a Microsoft Active Directory domain controller that was install recently to support other AWS services.
A solutions architect needs to recommend a new design that would improve the security of the architecture and minimize the administrative demand on it staff.
What should the solutions architect recommend？
A. Use AWS Directory Service to create a managed Active Directory.
Uninstall Active Directory on the current EC2 instance
B. Create another EC2 instance in the same subnet and reinstall Active directory on it.
Uninstall Active Directory.
C. Use AWS Directory Service to create an Active Directory connector.
Proxy Active Directory requests to the Active domain controller running on the current EC2 instance
D. Enable AWS Single Sign-On （AWS SSO） with Security Assertion Markup Language （SAML） 2.0 federation with the current Active Directory controller.
Modify the EC2 instance's security group to deny public access to Active Directory
答案：A

151. A company runs an application in a branch office within a small data closet with no virtualized compute resources.
The application data is stored on an NFS volume. Compliance standards require a daily offsite backup of the NFS volume.
Which solution meet these requirements？
A. Install an AWS Storage Gateway file gateway on premises to replicate the data to Amazon S3
B. Install an AWS Storage Gateway file gateway hardware appliance on premises to replicate the data to Amazon S3
C. Install an AWS Storage Gateway volume gateway with stored volumes on premises to replicate the data to Amazon S3
D. Install an AWS Storage Gateway volume gateway with cached volumes on premises to replicate the data to Amazon S3
答案：B

152. An application hosted on AWS is experiencing performance problems, and the application vendor wants to perform an analysis of the log file to troubleshoot further. The log file is stored on Amazon S3 and is 10 GB in size.
The application owner will make the log file available to the vendor for a limited time.
What is the MOST secure way to do this？
A. Enable public read on the S3 object and provide the link to the vendor
B. Upload the file to Amazon WorkDocs and share the public link with the vendor.
C. Generate a resigned URL and have the vendor download the log file before it expires
D. Create an IAM user for the vendor to provide access to the S3 bucket and the application Enforce multifactor authentication
答案：C

153. A company hosts its product information webpages on AWS.
The existing solution uses multiple Amazon C2 instances behind an Application Load Balancer in an Auto Scaling group. The website also uses a custom DNS name and communicates with HTTPS only using a dedicated SSL certificate. The company is planning a new product launch and wants to be sure that users from around the world have the best possible experience on the new website.
What should a solutions architect do to meet these requirements？
A. Redesign the application to use Amazon CloudFront
B. Redesign the application to use AWS Elastic Beanstalk
C. Redesign the application to use a Network Load Balancer
D. Redesign the application to use Amazon S3 static website hosting
答案：A

154. A solutions architect observes that a nightly batch processing job is automatically scaled up for 1 hour before the desired Amazon EC2 capacity is reached. The peak capacity is the same every night and the batch jobs always start at 1

AM. The solutions architect needs to find a cost-effective solution that will allow for the desired EC2 capacity to be reached quickly and allow the Auto Scaling group to scale down after the batch jobs are complete.
What should the solutions architect do to meet these requirements?
A. Increase the minimum capacity for the Auto Scaling group
B. Increase the maximum capacity for the Auto Scaling group
C. Configure scheduled scaling to scale up to the desired compute level
D. Change the scaling policy to add more EC2 instances during each scaling operation
答案：C

155. An ecommerce company is running a multi-tier application on AWS. The front-end and backend tiers both run on Amazon EC2 and the database runs on Amazon RDS for MySQL. The backend tier communicates with the RDS instance. There are frequent calls to return identical datasets from the database that are causing performance slowdowns.
Which action should be taken to improve the performance of the backend?
A. Implement Amazon SNS to store the database calls
B. Implement Amazon ElastiCache to cache the large datasets.
C. Implement an RDS for MySQL read replica to cache database calls
D. Implement Amazon Kinesis data firehose to stream the calls to the database
答案：B

156. A company's application hosted on Amazon EC2 instances needs to access an Amazon S3 bucket. Due to data sensitivity, traffic cannot traverse the internet How should a solutions architect configure access?
A. Create a private hosted zone using Amazon Route 53
B. Configure a VPC gateway endpoint for Amazon S3 in the VPC
C. Configure AWS PrivateLink between the EC2 instance and the S3 bucket
D. Set up a site-to-site VPN connection between the VCP and the S3 bucket
答案：B

157. An application runs on Amazon EC2 instances in private subnets. The application needs to access an Amazon DynamoDB table. What is the MOST secure way to access the table while ensuring that the traffic does not leave the AWS network?
A. Use a VPC endpoint for DynamoDB
B. Use a NAT gateway in a public subnet.
C. Use a NAT instance in a private subnet
D. Use the internet gateway attached to the VPC
答案：A

158. A solutions architect needs to design a low-latency solution for a static single-page application accessed by users utilizing a custom domain name. The solution must be serverless, encrypted in transit. and cost- effective.
Which combination of AWS services and features should the solutions architect use？　(Select TWO)
A. Amazon S3
B. Amazon EC2
C. AWS Fargate
D. Amazon CloudFront
E. Elastic Load Balancer
答案：AD

159. A company has global users accessing an application deployed in different AWS Regions, exposing public static IP addresses. The users are experiencing poor performance when accessing the application over the internet.
What should a solutions architect recommend to reduce internet latency?
A. Set up AWS Global Accelerator and add endpoints
B. Set up AWS Direct Connect locations in multiple Regions
C. Set up an Amazon CloudFront distribution to access an application
D. Set up an Amazon Route 53 geoproximity routing policy to route traffic
答案：A

160. An application requires a development environment（DEV） and production environment （PROD）for several years. The DEV instances will run for 10 hours each day during normal business hours, while the PROD instances will run 24 hours each day. A solutions architect needs to determine a compute instance purchase strategy to minimize costs Which solution is the most cost-effective？

A. DEV with Spot Instances and Prod with on-Demand Instances

B. DEV with On-Demand Instances and prod with Spot Instances

C. DEV with Scheduled Reserved Instances and Prod with Reserved Instances

D. DEV with On-Demand Instances and PROD with Scheduled Reserved Instances

答案：C

161. A solutions architect is designing a customer-facing application. The application is expected to have a variable amount of reads and writes depending on the time of year and clearly defined access patterns throughout the year. Management requires that database auditing and scaling be managed in the AWS Cloud. The Recovery Point Objective （RPO） must be less than 5 hours. Which solutions can accomplish this？ （Select TWO.）

A. Use Amazon DynamoDB with auto scaling . Use on-demand backups and AWS CloudTrail

B. Use Amazon DynamoDB with auto scaling . Use on-demand backups and Amazon DynamoDB Streams

C. Use Amazon Redshift Configure concurrency scaling . Enable audit logging . Perform database snapshots every 4 hours

D. Use Amazon RDS with Provisioned IOPS . Enable the database auditing parameter.Perform database snapshots every 5 hours

E. Use Amazon RDS with auto scaling Enable the database auditing parameter.Configure the backup retention period to at least 1 day

答案：CD

162. A company hosts its website on Amazon S3. The website serves petabytes of outbound traffic monthly, which accounts for most of the company's AWS costs

What should a solutions architect do to reduce costs？

A. Configure Amazon Cloud Front with the existing website as the origin

B. Move the website to Amazon EC2 with Amazon EBS volumes for storage

C. Use AWS Global Accelerator and specify the existing website as the endpoint

D. Rearchitect the website to run on a combination of Amazon API Gateway and AWS Lambda

答案：D

163. A solution architect has created two lAM policies: Policy1 and Policy2. Both policies are attached to an IAM group.

shida

Policy1
```
{
    "Version": "2012-10-17", "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "iam:Get*",
                "iam:List*",
                "kms:List*",
                "ec2:*",
                "ds:*",
                "logs:Get*",
                "logs:Describe*"
            ],
            "Resource": "*"
        }
    ]
}
```

Policy2
```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Deny",
            "Action": "ds:Delete*",
            "Resource": "*"
        }
    ]
}
```

A cloud engineer is added as an IAM user to the lAM group. Which action will the cloud engineer be able to perform？
A. Deleting IAM users
B. Deleting directories
C. Deleting Amazon EC2 instances
D. Deleting logs from Amazon CloudWatch Logs
答案：C

164. A solutions architect is helping a developer design a new ecommerce shopping cart application using AWS services. The developer is unsure of the current database schema and expects to make changes as the ecommerce site grows. The solution needs to be highly resilient and capable of automatically scaling read and write capacity.
Which database solution meets these requirements？
A. Amazon Aurora PostgreSQL
B. Amazon DynamoDB with on-demand enabled
C. Amazon DynamoDB with DynamoDB Streams enabled
D. Amazon SQS and Amazon aurora PostgreSQL
答案：B

165. A solutions architect is designing an architecture for a new application that requires low network latency and high network throughput between Amazon EC2 instances. Which component should be included in the architectural design？
A. An Auto Scaling group with Spot Instance types
B. A placement group using a cluster placement strategy
C. A placement group using a partition placement strategy
D. An Auto Scaling group with On-Demand instance types
答案：B

166. A company has a web application with sporadic usage patterns. There is heavy usage at the beginning of each month, moderate usage at the start of each week, and unpredictable usage during the week. The application consists of a web server and a MySQL database server running inside the data center. The company would like to move the application to the AWS Cloud, and needs to select a cost-effective database platform that will not require database modifications

Which solution will meet these requirements?
A. Amazon DynamoDB
B. Amazon RDS for MySQL
C. MySQL-compatible Amazon Aurora Serverless
D. MySQL deployed on Amazon EC2 in an Auto Scaling group
答案：C

167. **A solutions architect is designing a mission-critical web application. It will consist of Amazon EC2 instances behind an Application Load Balancer and a relational database. The database should be highly available and fault tolerant**
Which database implementations will meet these requirements？ (Select TWO.)
A. Amazon Redshift
B. Amazon DynamoDB
C. Amazon RDS for MySQL
D. MySQL-compatible Amazon Aurora Multi-AZ
E. Amazon RDS for SQL Server Standard Edition Multi-AZ
答案：DE

168. **A media company is evaluating the possibility of moving its systems to the AWS Cloud. The company needs at least 10TB of storage with the maximum possible I/O performance for video processing. 300 TB of very durable storage for storing media content, and 900 TB of storage to meet requirements for archival media that is not in use anymore**
which set of services should a solutions architect recommend to meet these requirements?
A. Amazon EBS for maximum performance, Amazon S3 for durable data storage, and Amazon S3 Glacier for archival storage
B. Amazon EBS for maximum performance. Amazon EFS for durable data storage, and Amazon S3 Glacier for archival storage
C. Amazon EC2 instance store for maximum performance, Amazon EFS for durable data storage, and Amazon S3 for archival storage
D. Amazon EC2 instance store for maximum performance, Amazon S3 for durable data storage, and Amazon S3 Glacier for archival storage
答案：D

169. **A company hosts an application on an Amazon EC2 instance that requires a maximum of 200 GB storage space. The application is used infrequently, with peaks during mornings and evenings Disk I/O varies, but peaks at 3,000 IOPS. The chief financial officer of the company is concerned about costs and has asked a solutions architect to recommend the most cost-effective storage option that does not sacrifice performance.**
Which solution should the solutions architect recommend？
A. Amazon EBS Cold HDD（sc1)
B. Amazon EBS General Purpose SSD（gp2)
C. Amazon EBS Provisioned IOPS SSD （io1)
D. Amazon EBS Throughput Optimized HDD（st1)
答案：B

170. **A company delivers files in amazon S3 to certain users who do not have AWS credentials. These users must be given access for a limited lime. What should a solutions architect do to securely meet these requirements？**
A. Enable public access on an Amazon S3 bucket
B. Generate a resigned URL to share with the users
C. Encrypt files using AWS KMS and provide keys to the users.
D. Create and assign IAM roles that will grant GetObject permissions to the users
答案：B

171. **A leasing company generates and emails PDF statements every month for all its customers Each statement is about 400 KB in size, Customers can download their statements from the website for up to 30 days from when the statements were generated. At the end of their 3-year lease, the customers are emailed a ZIP file that contains all the statements What is the MOST cost-effective storage solution for this situation？**

A. Store the statements using the Amazon S3 Standard storage class. Create a lifecycle policy to move the statements to Amazon S3 Glacier Deep Archive storage after 1 day

B. Store the statements using the Amazon S3 Glacier storage class. Create a lifecycle policy to move the statements to Amazon S3 Glacier Deep Archive storage after 30 days

C. Store the statements using the Amazon S3 Standard storage class. Create a lifecycle policy to move the statements to Amazon S3 One Zone-Infrequent Access（S3 One Zone-IA）storage after 30 days

D. Store the statements using the Amazon S3 Standard-Infrequent Access（S3 Standard-IA）storage class. Create a lifecycle policy to move the statements to Amazon S3 Glacier storage after 30 days

答案：C

172. A solutions architect is moving the static content from a public website hosted on Amazon EC2 instances to an Amazon S3 bucket. An Amazon Cloud front distribution will be used to deliver the static assets. The security group used by the EC2 instances restricts access to a limited set of IP ranges. Access to the static content should be similarly restricted

Which combination of steps will meet these requirements？ （Select TWO）

A. Create an origin access identity（OAI）and associate it with the distribution. Change the permissions in the bucket policy so that only the OAI can read the objects

B. Create an AWS WAF web ACL that includes the same IP restrictions that exist in the EC2 security group. Associate this new web ACL with the CloudFront distribution

C. Create a new security group that includes the same IP restrictions that exist in the current EC2 security group. Associate this new security group with the Cloud Front distribution

D. Create a new security group that includes the same IP restrictions that exist in the current EC2 security group. Associate this new security group with the S3 bucket hosting the static content

E. Create a new IAM role and associate the role with the distribution. Change the permissions either on the S3 bucket or on the files within the S3 bucket so that only the newly created lAM role has read and download permissions

答案：AB

173. A company has a large Microsoft Share Point deployment running on-premises that requires Microsoft Windows shared file storage. The company wants to migrate this workload to the AWS Cloud and is considering various storage options. The storage solution must be highly available and integrated with Active Directory for access control Which solution will satisfy these requirements?

A. Configure Amazon EFS storage and set the active directory domain for authentication

B. Create an SMB file share on an AWS Storage Gateway fie gateway in two Availability Zones

C. Create an Amazon S3 bucket and configure Microsoft Windows Server to mount it as a volume

D. Create an Amazon FSx for Windows File Server file system on AWs and set the Active Directory domain for authentication

答案：D

174. A company runs multiple Amazon EC2 Linux instances in a VPC with applications that use a hierarchical directory structure. The applications need to rapidly and concurrently read and write to shared storage How can this be achieved?

A. Create an Amazon EFS file system and mount it from each EC2 instance

B. Create an Amazon S3 bucket and permit access from all the EC2 instances in the VPC

C. Create a file system on an Amazon EBS Provisioned IOPS SSD（io1）volume. Attach the volume to all the EC2 instances

D. Create file systems on Amazon EBS volumes attached to each EC2 instance Synchronize the Amazon EBS volumes across the different EC2 instances

答案：A

175. A company runs an application using Amazon ECS. The application creates resized versions of an original image and then makes Amazon S3 API calls to store the resized images in Amazon S3. How can a solutions architect ensure that the application has permission to access Amazon S3?

A. Update the S3 role in AWS lAM to allow read/write access from Amazon ECS, and then relaunch the container

B. Create an IAM role with S3 permissions, and then specify that role as the task RoleArn in the task definition

C. Create a security group that allows access from Amazon ECS to Amazon S3，and update the launch configuration used by the ECS cluster

D. Create an IAM user with S3 permissions, and then relaunch the Amazon EC2 instances for the ECS cluster while logged in as this account

答案：B

176. A solutions architect has configured the following IAM policy.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "lambda:*"
            ],
            "Resource": "*"
        },
        {
            "Effect": "Deny",
            "Action": [
                "lambda:CreateFunction",
                "lambda:DeleteFunction"
            ],
            "Resource": "*",
            "Condition": {
                "IpAddress": {
                    "aws:SourceIp": "220.100.16.0/20"
                }
            }
        }
    ]
}
```

Which action will be allowed by the policy？
A. An AWS Lambda function can be deleted from any network
B. An AWS Lambda function can be created from any network.
C. An AWS Lambda function can be deleted from the 100,220.0.0/20 network

答案：C

177. A website runs a web application that receives a burst of traffic each day at noon. the users upload new pictures and content daily, but have been complaining of timeouts. The architecture uses Amazon EC2 Auto Scaling groups, and the custom application consistently takes 1 minute to initiate upon boot up before responding to user requests. How should a solutions architect redesign the architecture to better respond to changing traffic？
A. Configure a Network Load Balancer with a slow start configuration
B. Configure AWS ElastiCache for Redis to offload direct requests to the servers
C. Configure an Auto Scaling step scaling policy with an instance warmup condition
D. Configure Amazon Cloud Front to use an Application Load Balancer as the origin

答案：C

178. A company has a website running on Amazon EC2 instances across two Availability Zones. The company is expecting spikes in traffic on specific holidays, and wants to provide a consistent user experience. How can a solutions architect meet this requirement？
A. Use step scaling
B. Use simple scaling
C. Use lifecycle hooks
D. Use scheduled scaling

答案：D

179. 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

答案：C

180. A company has 150 TB of archived image data stored on-premises that needs to be mowed to the AWS Cloud within the next month. The company's current network connection allows up to 100 Mbps uploads for this purpose during the night only.

What is the MOST cost-effective mechanism to move this data and meet the migration deadline？

A. Use AWS Snowmobile to ship the data to AWS

B. Order multiple AWS Snowball devices to ship the data to AWS

C. Enable Amazon S3 Transfer Acceleration and securely upload the data

D. Create an Amazon S3 VPC endpoint and establish a VPN to upload the data

答案：B

181. A three-tier web application processes orders from customers. The web tier consists of Amazon EC2 instances behind an Application Load Balancer, a middle tier of three EC2 instances decoupled from the web tier using Amazon SQS and an Amazon DynamoDB backend At peak times, customers who submit orders using the site have to wait much longer than normal to receive confirmations due to lengthy processing times. A solutions architect needs to reduce these processing times. Which action will be MOST effective in accomplishing this？

A. Replace the SQS queue with Amazon Kinesis Data Firehose

B. Use Amazon ElastiCache for Redis in front of the DynamoDB backend tier

C. Add an Amazon CloudFront distribution to cache the responses for the web tier.

D. Use Amazon EC2 Auto Scaling to scale out the middle tier instances based on the SQS queue depth

答案：D

182. A company wants to host a web application on AWS that will communicate to a database within a VPC The application should be highly available What should a solutions architect recommend？

A. Create two Amazon EC2 instances to host the web servers behind a load balancer. and then deploy the database on a large instance

B. Deploy a load balancer in multiple Availability Zones with an Auto Scaling group for the web servers, and then deploy Amazon RDS in multiple Availability Zones

C. Deploy a load balancer in the public subnet with an Auto Scaling group for the web servers, and then deploy the database on an Amazon EC2 instance in the private subnet.

D. Deploy two web servers with an Auto Scaling group, configure a domain that points to the two web servers, and then deploy a database architecture in multipie Availability Zones

答案：B

183. A company is migrating to the AWS Cloud. A file server is the first workload to migrate. Users must be able to access the file share using the Server Message Block（SMB）protocol.

Which AWS managed service meets these requirements?

A. Amazon EBS

B. Amazon EC2

C. Amazon FSx

D. Amazon S3

答案：C

184. A company has a mobile chat application with a data store based in Amazon DynamoDB Users would like new messages to be read with as little latency as possible. A solutions architect need to design an optimal solution that requires minimal application changes.

Which method should the solutions architect select？

A. Configure Amazon DynamoDB Accelerator（DAX）for the new messages table Update the code to use the DAX endpoint

B. Add DynamoDB read replicas to handle the increased read load. Update the application to point to the read endpoint for the read replicas

C. Double the number of read capacity units for the new messages table in DynamoDB. Continue to use the existing DynamoDB endpoint

D. Add an Amazon EiastiCache for Redis cache to the application stack. Update the application to point to the Redis cache endpoint instead of DynamoDB

答案：A

185. A company wants to use an AWS Region as a disaster recovery location for its on-premises infrastructure. The company has 10 TB of existing data, and the on-premise data center has a 1 Gbps internet connection. a solutions architect must find a solution so the company can have its existing data on AWS in 72 hours without transmitting it using an unencrypted channel.

Which solution should the solutions architect select?

A. Send the initial 10 TB of data to AWS using FTP.

B. Send the initial 10 TB of data to AWS using AWS Snowball

C. Establish a VPN connection between Amazon VPC and the company' s data center.

D. Establish an AWS Direct Connect connection between Amazon VPC and the company's data center

答案：C

186.A web application runs on Amazon EC2 instances behind an Application Load Balancer. The application allows users to create custom reports of historical weather data Generating a report can take up to 5 minutes. These long- running requests use many of the available incoming connections, making the system unresponsive to other users.

How can a solutions architect make the system more responsive?

A. Use Amazon SQS with AWS Lambda lo generate reports

B. Increase the idle timeout on the Application Load Balancer to 5 minutes

C. Update the client-side application code to increase its request timeout to 5 minutes

D. Publish the reports to amazon s3 and use amazon cloud front for downloading to the user

答案：A

187. A company decides to migrate its three-tier web application from on premises to the AWS Cloud. The new database must be capable of dynamically scaling storage capacity and performing table joins.

Which AWS service meets these requirements?

A. Amazon Aurora

B. Amazon RDS for SqlServer

C. Amazon DynamoDB Streams

D. Amazon DynamoDB on-demand

答案：A

188. A company runs a website on Amazon EC2 instances behind an ELB Application Load Balancer Amazon Route 53 is used for the DNS. The company wants to set up a backup website with a message including a phone number and email address that users can reach if the primary website is down.

How should the company deploy this solution?

A. Use Amazon S3 website hosting for the backup website and Route 53 failover routing policy

B. Use Amazon S3 website hosting for the backup website and Route 53 latency routing policy.

C. Deploy the application in another AWS Region and use ELB health checks for failover routing

D. Deploy the application in another AWS Region and use server-side redirection on the primary website

答案：A

189. A company needs to implement a relational database with a multi-Region disaster recovery Recovery Point Objective（RPO）of 1 second and an Recovery Time Objective（RTO）of 1 minute Which AWS solution can achieve this?

A. Amazon Aurora Global Database

B. Amazon DynamoDB global tables

C. Amazon RDS for MySQL with Multi-AZ enabled

D. Amazon RDS for My SQL with a cross-Region snapshot copy

答案：A

190. A company running an on-premises application is migrating the application to Aws to increase its elasticity and availability. The current architecture uses a Microsoft SQL Server database with heavy read activity. The company wants to explore alternate database options and migrate database engines, if needed. Every 4 hours, the development team does a full copy of the production database to populate a test database. During this period, users experience latency. What should a solution architect recommend as replacement database?

A. Use Amazon Aurora with Multi-AZ Aurora Replicas and restore from mysqldump for the test database

B. Use Amazon Aurora with Multi-AZ Aurora Replicas and restore snapshots from Amazon RDS for the test database

C. Use Amazon RDS for MySQL with a Multi-AZ deployment and read replicas, and use the standby instance for the test database

D. Use Amazon RDS for SQL Server with a Multi-AZ deployment and read replicas, and restore snapshots from RDS for the test database

答案：D

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191. A company currently stores symmetric encryption keys in a hardware security module（HSM）. A solution architect must design a solution to migrate key management to AWS. The solution should allow for key rotation and support the use of customer provided keys. Where should the key material be stored to meet these requirements?

A. Amazon S3

B. AWS Secrets manager

C. AWS Systems Manager Parameter store

D. AWS Key Management Service（AWS KMS）

答案：B

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192. A company is developing a video conversion application hosted on AWs. The application will be available in to tiers:a free tier and paid tier User in teh paid tier will have their videos converted first, and then teh free tier users will have their videos converted

Which solution meets these requirements and is MOST cost-effective?

A. One FiFo queue for the paid tier and one standard queue for the free tier

B. A single FIFO Amazon Simple Queue Service（Amazon sQs）queue for all files types

C. A single standard Amazon Simple Queue Service（Amazon sQs）queue for all files type

D. Two standard Amazon Simple Queue Service（Amazon sQs）queues with one for the paid tier and one for the free tier

答案：A

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193. A company is building a website that relies on reading and writing to an Amazon DynamoDB database. The traffic associated with the website predictably peaks during business hours on weekdays and declines overnight and during weekends A solutions architect needs to design a cost-effective solution that can handie the load What should the solutions architect do to meet these requirements?

A. Enable DynamoDB Accelerator（DAX） to cache the data

B. Enable Multi-AZ replication for the DynamoDB database

C. Enable DynamoDB auto scaling when creating the tables

D. Enable DynamoDB On-Demand capacity allocation when creating the tables

答案：C

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194. A company is preparing to deploy a data lake on AWS. A solutions architect must define the encryption strategy for data at rest in Amazon S3. the company s security policy states

- Keys must be rotated every 90 days

- Strict separation of duties between key users and key administrators must be implemented

- Auditing key usage must be possible

What should the solutions architect recommend?

A. Server-side encryption with AWs KMs managed keys （SSE-KMS）with customer managed customer master keys（CMKs）

B. Server-side encryption with AWs KMS managed keys （SSE-KMS） with AWS managed customer master keys（CMKs）

C. Server-side encryption with Amazon S3 managed keys（SSE-S3 ）with customer managed customer master keys（CMKs）

D. Server-side encryption with Amazon S3 managed keys（SSE-S3）with AWS managed customer master keys（CMKs）

答案：B

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195. A company has an on-premises application that generates a large amount of time-sensitive data that is backed up to Amazon S3. The application has grown and there are user complaints abou internet bandwidth limitations. A solutions architect needs to design a long-term solution that allows for both timely backups to Amazon s3 and with minimal impact on internet connectivity for internal users

Which solution meets these requirements?

A. Establish AWS VPN connections and proxy all traffic through a VPc gateway endpoint

B. Establish a new AWs Direct Connect connection and direct backup traffic through this new connection

C. Order daily AWs Snowball devices Load the data onto the Snowball devices and return the devices to AWS each day

D. Submit a support ticket through the AWs Management Console Request the removal of S3 service limits from the account

答案：B

196. A company uses Amazon Redshift for its data warehouse. The company wants to ensure high durability for its data in case of any component failure.

What should a solution archited recommend?

A. Enable concurrency scaling

B. Enable cross-Region snapshots.

C. Increase the data retention period.

D. Deploy amazon Redshift in multi-aZ

答案：B

197. A company is migrating a Linux-based web server group to AWS. The web servers must access files in a shared file store for some content to meet the migration date, minimal changes can be made What should a solutions architect do to meet these requirements?

A. Create an Amazon S3 Standard bucket with access to the web server

B. Configure an Amazon CloudFront distribution with an Amazon S3 bucket as the origin

C. Create an Amazon Elastic File System（Amazon EFS）volume and mount it on all web servers.

D. Configure Amazon Elastic Block Store（Amazon EBS）Provisioned lOPS SSD （io1）volumes and mount them on all web servers

答案：C

198. A solutions architect is planning the deployment of a new static website The solution must inimize costs and provide at least 99% availability

Which solution meets these requirements？

A. Deploy the application to an Amazon S3 bucket in one Aws Region that has versioning disabled

B. Deploy the application to Amazon EC2 instances that run in two AWs Regions and two Availability Zones

C. Deploy the application to an Amazon S3 bucket that has versioning and cross-Region replication enabled

D. Deploy the application to an Amazon EC2 instance that runs in one AWs Region and one Availability zone

答案：A

199. A company hosts an online shopping application that stores all orders in an Amazon RDs for Postgre SQL Single-AZ DB instance Management wants to eliminate single points of failure and has asked a solutions architect to recommend an approach to minimize database downtime without requiring any changes to the application code

Which solution meets these requirements？

A. Convert the existing database instance to a Multi-aZ deployment by modifying the database instance and specifying the Multi-AZ option

B. Create a new RDS Multi-AZ deployment Take a snapshot of the current RDS instance and restore the new Multi-AZ deployment with the snapshot.

C. Create a read-only replica of the Postgre SQL database in another Availability Zone Use Amazon route 53 weighted record sets to distribute requests across the databases

D. Place the RDS for Postgre SQL database in an Amazon EC2 Auto Scaling group with a minimum group size of two Use Amazon Route 53 weighted record sets to distribute requests across instances

答案：A

200. A company is deploying an application in three AWS Regions using an Application Load Balancer. Amazon Route 53 will be used to distribute traffic between these Regions

Which Route 53 configuration should a solutions architect use to provide the most high-performing experience？

A. Create an a record with a latency policy.

B. Create an a record with a geolocation policy

C. Create a CNAME record with a failover policy.

D. Create a CNaME record with a geoproximity policy

答案：A

201. A company hosts an application used to upload files to an Amazon S3 bucket. Once uploaded, the files are processed to extract metadata, which takes less than 5 seconds. The volume and frequency of the uploads varies from a few files each hour to hundreds of concurrent uploads The company has asked a solutions architect to design a cost-effective architecture that will meet these requirements

What should the solutions architect recommend?

A. Configure AWS Cloud Trail trails to log S3 APl calls Use AWS AppSync to process the files

B. Configure an object-created event notification within the s3 bucket to invoke an AWS Lambda function to process the files

C. Configure Amazon Kinesis Data Streams to process and send data to Amazon S3
Invoke an AWS Lambda function to process the files

D. Configure an Amazon Simple Notification Service (Amazon SNS) topic to process the files uploaded to Amazon S3 Invoke an AWS Lambda function to process the files

答案：B

202. A company has data stored in an on-premises data center that is used by several on-premises applications. The company wants to maintain its existing application environment and be able to use AWS services for data analytics and future visualizations。

Which storage service should a solutions architect recommend？

A. Amazon Redshift

B. AWs Storage Gateway for files.

C. Amazon Elastic Block Store（Amazon EBS）

D. Amazon Elastic File System（Amazon EFS）

答案：A

203. A company is developing a mobile game that streams score updates to a backend processor and then posts results on a leaderboard. A solutions architect needs to design a solution that can handle large traffic spikes, process the mobile game updates in order of receipt, and store the processed updates in a highly available database. The company also wants to minimize the management overhead required to maintain the solution。

What should the solutions architect do to meet these requirements？

A. Push score updates to Amazon Kinesis Data Streams Process the updates in Kinesis Data Streams with AWS Lambda Store the processed updates in Amazon DynamoDB

B. Push score updates to Amazon Kinesis Data Streams.
Process the updates with a fleet of Amazon EC2 instances set up for Auto Scaling Store the processed updates in Amazon Redshift

C. Push score updates to an Amazon Simple Notification Service（Amazon SNS）topic Subscribe an AWS Lambda function to the SNs topic to process the updates Store the processed updates in a SQL database running on Amazon EC2

D. Push score updates to an Amazon Simple Queue Service（Amazon SQS）queue Use a fleet of Amazon EC2 instances with Auto Scaling to process the updates in the sos queue Store the processed updates in an Amazon RDS Multi-AZ DB instance

答案：A

204. A company has a three-tier environment on AWs that ingests sensor data from its users' devices The traffic flows through a Network Load Balancer（NLB），then to Amazon EC2 instances for the web tier, and finally to EC2 instances for the application tier that makes database calls。

What should a solutions architect do to improve the security of data in transit to the web tier？

A. Configure a tLs listener and add the server Certificate on the NlB

B. Configure AWs Shield Advanced and enable AWS WAF on the NLB

C. Change the Load Balancer to an Application Load Balancer and attach AWS WAF to it

D. Encrypt the Amazon Elastic Block Store（Amazon EBS）volume on the EC2 instances using AWs Key Management Service（AWS KMS）

答案：A

205. A company uses Application Load Balancers（ALBs）in different AWS Regions
The ALBs receive inconsistent traffic that can spike and drop throughout the year. the com networking team needs to allow the IP addresses of the ALBs in the on-premises firewall touy's enable connectivity
Which solution is the MOST scalable with minimal configuration changes？

A. Write an AWS Lambda script to get the IP addresses of the ALBs in different Regions e Update the on-premises firewalls rule to allow the iP addresses of the ALBs

B. Migrate all ALBs in different Regions to the Network Load Balancers（NLBs）
Update the on-premises firewall's rule to allow the Elastic iP addresses of all the NLBs

C. Launch AWS Global Accelerator Register the ALBs in different Regions to the accelerator.
Update the on-premises firewall's rule to allow static iP addresses associated with the accelerator

D. Launch a Network Load Balancer（NLB）in one Region Register the private IP addresses of the ALBs in different Regions with the NLB Update the on-premises firewall's rule to allow the Elastic IP address attached to the NLB

答案：C

206. A company receives inconsistent service from its data center provider because the company is headquartered in an area affected by natural disasters.

The company is not ready to fully migrate to the AWS Cloud, but it wants a failure environment on AWS in case the on-premises data center fails

The company runs web servers that connect to external vendors the data available on AWS and on premises must be uniform.

Which solution should a solutions architect recommend that has the least amount of downtime？

A. Configure an Amazon Route 53 failover record Run application servers on Amazon EC2 instances behind an Application Load Balancer in an Auto Scaling group.
Set up AWs Storage Gateway with stored volumes to back up data to Amazon S3

B. Configure an Amazon Route 53 failover record Execute an AWS Cloud Formation template from a script to create Amazon EC2 instances behind an Application Load Balancer.
Set up AWS Storage Gateway with stored volumes to back up data to Amazon S3

C. Configure an Amazon Route 53 failover record Set up an AWs Direct Connect connection between a VPC and the data center Run application servers on Amazon EC2 in an Auto Scaling group Run an Aws Lambda function to execute an aws cloud Formation template to create an Application Load Balancer.

D. Configure an Amazon Route 53 failover record Run an AWs Lambda function to execute an AWS CloudFormation template to launch two Amazon EC2 instances Set up AWS Storage Gateway with stored volumes to back up data to Amazon S3
Set up an AWS Direct Connect connection between a VPC and the data center.

答案：B

207. A company has two AWS accounts Production and Development There are code changes ready in the Development account to push to the Production account. In the alpha phase, only two senior developers on the development team need access to the Production account. In the beta phase, more developers might need access to perform testing as well What should a solutions architect recommend？

A. Create two policy documents using the AWs Management Console in each account Assign the policy to developers who need access

B. Create an lAM role in the development account give one lAM role access to the production account Allow developers to assume the role

C. Create an IAM role in the Production account with the trust policy that specifies the Development account Allow developers to assume the role

D. Create an IAM group in the Production account and add it as a principal in the trust policy that specifies the Production account.
Add developers to the group

答案：C

208. A company has a custom application with embedded credentials that retrieves information from an Amazon RDS My SQL DB instance Management says the application must be made more secure with the least amount of programming effort.

What should a solutions architect do to meet these requirements？

A. Use AWs Key Management Service（AWS KMS）customer master keys（CMKs）to create keys.
Configure the application to load the database credentials from AWs KMs Enable automatic key rotation

B. Create credentials on the RDS for My SQL database for the application user and store the credentials in AWS Secrets Manager.
Configure the application to load the database credentials from Secrets Manager.

Create an AWs Lambda function that rotates the credentials in Secret Manager.

C. Create credentials on the RDs for MysQL database for the application user and store the credentials in AWS Secrets Manager.

Configure the application to load the database credentials from Secrets Manager.

Set up a credentials rotation schedule for the application user in the RDs for MysQL databas using Secrets Manager.

D.Create credentials on the RDs for MysQL database for the application user and store the credentials in AWS Systems Manager Parameter.

Store Configure the application to load the database credentials from Parameter Store Set up a credentials rotation schedule for the application user in the RDs for My SQL database using Parameter Store

答案：A

209. A company wants to run a hybrid workload for data processing. the data needs to be accessed by on-premises applications for local data processing using an NFS protocol, and must also be accessible from the AWS Cloud for further analytics and batch processing

Which solution will meet these requirements?

A. Use an AWS Storage Gateway file gateway to provide file storage to AWS, then perform analytics on this data in the AWS Cloud

B. Use an AWS storage Gateway tape gateway to copy the backup of the local data to AWS, then perform analytics on this data in the AWS cloud

C. Use an AWS Storage Gateway volume gateway in a stored volume configuration to regularly take snapshots of the local data, then copy the data to AWS

D. Use an AWS Storage Gateway volume gateway in a cached volume configuration to back up all the local storage in the AWS cloud then perform analytics on this data in the cloud

答案：A

210. A company must re-evaluate its need for the Amazon EC2 instances it currently has provisioned in an Auto Scaling group. At present, the Auto Scaling group is configured for minimum of two instances and a maximum of four instances across two Availability zones. A Solutions architect reviewed Amazon CloudWatch metrics and found that CPU utilization is consistently low for the EC2 instances. What should the solutions architect recommend to maximize utilization while ensuring the application remains fault tolerant?

A. Remove some EC2 instances to increase the utilization of remaining instances

B. Increase the Amazon Elastic Block Store（Amazon EBS）capacity of instances with less CPU

C. Modify the Auto Scaling group scaling policy to scale in and out based on a higher CPU utilization metric

D. Create a new launch configuration that uses smaller instance types. Update the existing Auto Scaling group

答案：C

211. A company's website provides users with downloadable historical performance reports. The website needs a solution that will scale to meet the company's website demands globally. The solution should be cost effective, limit the？ provisioning of Into and provide the fastest possible response time. Which combination should a solutions architect recommend to meet these requirements?

A. Amazon Cloud Front and Amazon S3

B. AWS Lambda and Amazon Dynamo

C. Application Load Balancer with Amazon EC2 Auto Scaling

D. Amazon Route 53 with internal Application Load Balances

答案：A

212. A company is developing a real-time multiplier game that uses UDP for communications between client and servers in an Auto Scaling group Spikes in demand are anticipated during the day, so the game server platform must adapt accordingly. Developers want to store gamer scores and other non-relational data in a database solution that will scale without intervention.

Which solution should a solution architect recommend?

A. Use Amazon Route 53 for traffic distribution and Amazon Aurora Serverless for data storage

B. Use a Network Load Balancer for traffic distribution and Amazon DynamoDB on-demand for data storage

C. Use a Network Load Balancer for traffic distribution and amazon Aura Global for data storage

D. Use an Application Load Balancer for traffic distribution and Amazon DynamoDB global tables for data storage

答案：B

213. A company currently has 250 TB of backup files stored in Amazon S3 in a vendor's proprietary format Using a Linux-based software application provided by the vendor, the company wants to retrieve files from Amazon S3 , transform the files to an industry-standard format, and re-upload them to Amazon S3. The company wants to minimize the data transfer charges associated with this conversation. What should a solution architect do to accomplish this？

A. Install the conversion software as an Amazon S3 batch operation so the data is transformed without leaving Amazon S3

B. Install the conversion software onto an on-premises virtual machines. Perform the transformation and re-upload the files to Amazon S3 from the virtual machine

C. Use AWS Snowball Edge device to expert the data and install the conversion software onto the devices Perform the data transformation and re-upload the files to Amazon S3 from the Snowball devices

D. Launch an Amazon EC2 instance in the same Region as Amazon S3 and install the conversion software onto the instance Perform the transformation and re-upload the files to Amazon S3 from the EC2 instance

答案：D

214. A company has an Amazon EC2 instance running on a private subnet that needs to access a public websites to download patches and updates. the company does not want external websites to see the EC2 instance IP address or initiate connection to it.

How can a solution architect achieve this objective？

A. Create a site-to-site VPN connection between the private subnet and the network in which the public site is deployed

B. Create a NAT gateway in a public subnet Route outbound traffic from the private subnet through the NAl gateway

C. Create a network ACL for the private subnet where the EC2 instance deployed only allows access from the IP address range of the public website

D. Create a security group that only allows connections from the IP address range of the public website Attach the security group to the EC2 instance

答案：B

215. A company has created an isolated backup of its environment in another Region. The application is running in warm standby mode and is fronted by an Application Load Balancer (ALB) . The current failover process is manual and requires updating a DNS alias record to point to the secondary ALB in another Region

What should a solution architect do to automate the failover process?

A. Enable an ALB health check

B. Enable an Amazon route 53 health check

C. Crate an CNAME record on Amazon Route 53 pointing to the ALB endpoint

D. Create conditional forwarding rules on Amazon Route 53 pointing to an internal BIND DNS server

答案：C

216. A company needs to share an amazon S3 bucket with an external vendor. The bucket owner must be able to access all objects.

Which action should be taken to share the S3 bucket？

A. Update the bucket to be a Requester Pays bucket

B. Update the bucket to enable cross-origin resource sharing （CPORS）

C. Create a bucket policy to require users to grant bucket-owner-full when uploading objects

D. Create an IAM policy to require users to grant bucket-owner-full control when uploading objects

答案：C

217. A company uses Amazon S3 as its object storage solution. The company has thousands of S3 it uses to store data. Some of the S3 bucket have data that is accessed less frequently than others. A solutions architect found that lifecycle policies are not consistently implemented or are implemented partially. resulting in data being stored in high-cost storage.

Which solution will lower costs without compromising the availability of objects？

A. Use S3 ACLs

B. Use Amazon Elastic Block Store (EBS) automated snapshots

C. Use S3 inteligent-Tiering storage

D. Use S3 One Zone- infrequent Access （S3 One Zone-IA）

答案：C

218. A solutions architect is performing a security review of a recently migrated workload. The workload is a web application that consists of amazon EC2 instances in an Auto Scaling group behind an Application Load balancer. The solution architect must improve the security posture and minimize the impact of a DDoS attack on resources. Which solution is most effective?

A. Configure an AWS WAF ACL with rate- based rules Create an Amazon CloudFront distribution that points to the Application Load Balancer. Enable the EAF ACL on the CloudFront distribution

B. Create a custom AWS Lambda function that adds identified attacks into a common vulnerability pool to capture a potential DDoS attack. use the identified information to modify a network ACL to block access

C. Enable VPC Flow Logs and store then in Amazon S3. Create a custom AWS Lambda functions that parses the logs looking for a DDoS attack. Modify a network ACL to block identified source IP addresses

D. Enable Amazon Guard Duty and, configure findings written 10 Amazon GloudWatch Create an event with Cloud Watch Events for DDoS alerts that triggers Amazon Simple Notification Service（Amazon SNS）Have Amazon SNS invoke a custom AWS lambda function that parses the logs looking for a DDoS attack Modify a network ACL to block identified source IP addresses

答案：A

219. A company has a custom application running on an Amazon EC2 instance that:
-Reads a large amount of data from Amazon S3
-Performs a multi stage analysis
-Writes the results to Amazon DynamoDB
The application writes a significant number of large temporary files during the multi stage analysis The process performance depends on the temporary storage performance. What would be the fastest storage option for holding the temporary files?

A. Multiple Amazon S3 buckets with Transfer Acceleration for storage

B. Multiple Amazon EBS drives with Provisioned lOPS and EBS optimization

C. Multiple Amazon EFS volumes using the Network I lie System version 4.1（NFSv4.1）protocol

D. Multiple instance store volumes with software RAID 0

答案：D

220. A solutions architect must migrate a Windows internet information Services（IIS）web application to AWS. The application currently relies on a file share hosted in the user's on-premises network-attached storage (NAS）. The solution architected has proposed migrating the IIS web servers
Which replacement to the on-promises filo share is Most resilient and durable?

A. Migrate the file Share to Amazon RDS

B. Migrate the tile Share to AWS Storage Gateway

C. Migrate the file Share to Amazon FSx dor Windows File Server.

D. Migrate the tile share to Amazon Elastic File System（Amazon EFS）

答案：C

221. An application running on an amazon EC2 instance in VPC-A needs to access files in another EC2 instance in VPC-B. Both are in separate AWS accounts.
The network administrator needs to design a solution to enable secure access to EC2 instance in VPC-B from VPC-A. The connectivity should not have a single point of failure or bandwidth concerns.
Which solution will meet these requirements?

A. Set up a VPC peering connection between VPC-A and VPC-B

B. Set up VPC gateway endpoints for the EC2 instance running in VPC-B

C. Attach a virtual private gateway to VPC-B and enable routing from VPC-A

D. Create a private virtual interface（VIF）for the EC2 instance running in VPC-B and add appropriate routes from VPC-B

答案：A

222. A company is seeing access requests by some suspicious IP addresses. The security team discovers the requests are from different IP addresses under the same CIDR range. What should a solutions architect recommend to the team?

A. Add a rule in the inbound table of the security to deny the traffic from that CIDR range

B. Add a rule in the outbound table of the security group to deny the traffic from that CIDR range

C. Add a deny rule in the inbound table of the network ACL with a lower number than other rules

D. Add a deny rule in the outbound table of the network ACL with a lower rule number than other rules

答案：C

223. A company is using a VPC peering strategy to connect its VPCs in a single Region to allow for cross- communication a recent increase in account creations and VPCs has made it difficult to maintain the VPC peering strategy, and the company expects to grow to hundreds of VPCs There are also new requests to create site-to-site VPNs with some of the VPCs. A solutions architect has been tasked with creating a centrally networking setup for multiple accounts, VPNS and VPNs

Which networking solution meets these requirements?
A. Configure shared VPCs and VPNs and share to each other
B. Configure a hub-and-spoke and route all traffic through VPC peering
C. Configure an AWS Direct Connect between all VPCs and VPNs
D. Configure a transit gateway with AWS Transit Gateway and connected all VPCs and VPNs

答案：D

224. A monolithic application was recently migrated to AWS and is now running on a single Amazon EC2 instance. Due to application limitations, it is not possible to use automatic scaling to scale out the application. The chief technology officer（CTO）wants an automated solution to restore the EC2 instance in the unlikely event the underlying hardware fails.

What would allow for automatic recovery of the EC2 instance as quickly as possible?
A. Configure an Amazon CloudWatch alarm that triggers the recovery of the EC2 instance if it becomes impaired
B. Configure an Amazon CloudWatch alarm to trigger an SNS message that alerts the CTO when the EC2 instance is impaired
C. Configure AWS Cloud rail to monitor the health of the EC2 instance, and if it becomes impaired triggered instance recovery
D. Configure an Amazon EventBridge event to trigger an AWs Lambda function once an hour that checks the health of the EC2 instance and triggers instance recovery if the EC2 instance is unhealth

答案：D

225. A company has created a VPC with multiple private subnets in multiple Availability Zones（AZs）and one public subnet in one of the AZs. The public subnet is used to launch a NAT gateway. There are instance in the private subnet that use a NAT gateway to connect to the internet. In case is used of an AZ failure, the company wants to ensure that the instance are not all experiencing internet connectivity issues and that there is a backup plan ready Which solution should a solutions architect recommend that is MOST highly available?
A. Create a new public subnet with a NAT gateway in the same AZ Distribute the traffic between the two NAT gateways
B. Create an Amazon EC2 NAT instance in a now public subnet Distribute the traffic between the NAT gateway and the NAT instance
C. Create public subnets In each f\Z and launch a NAT gateway in each subnet Configure the traffic from the private subnets In each A2 to the respective NAT gateway
D. Create an Amazon EC2 NAT instance in the same public subnet Replace the NAT gateway with the NAT instance and associate the instance with an Auto Scaling group with an appropriate scaling policy

答案：C

226. A company has multiple AWS accounts, for various departments. One of the departments wants to share an Amazon S3 bucket with all other department
Which solution will require the LEAST amount of effort-?
A. Enable cross-account S3 replication for the bucket
B. Create a pre signed URL tor the bucket and share it with other departments
C. Set the S3 bucket policy to allow cross-account access to other departments
D. Create IAM users for each of the departments and configure a read-only IAM policy

答案：C

227. 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 for all of these global sites?

A. Enable Amazon S3 Transfer Acceleration on the destination bucket. Use multipart uploads to directly upload site data to the destination bucket.

B. Upload site data to an Amazon S3 bucket in the closest AWs Region. Use S3 cross-Region replication to copy objects to the destination bucket

C. Upload site data to an Amazon S3 bucket in the closest AWs Region. Use S3 cross-Region replication to copy objects to the destination bucket.

D. Upload the data to an Amazon EC2 instance in the closes Region. Store the data in an Amazon EBS volume One a day take an EBS snapshot and copy it to the centralize Region. Restore the EBS volume in the centralized Region and run an analysis on the data daily

答案：A

228. A company has implemented one of its microservices on AWS Lambda that accesses an Amazon DynamoDB table named Books. A solutions architect is design an IAM policy to be attached to the Lambda function's IAM role, giving it access to put, update and delete items in the Books table. the IAM policy must prevent function from performing any other actions on the Books table or any other. Which IAM policy would fulfill
these needs and provide the LEAST privileged access?

A.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PutUpdateDeleteOnBooks",
            "Effect": "Allow",
            "Action": [
                "dynamodb: PutItem",
                "dynamodb: UpdateItem",
                "dynamodb: DeleteItem"
            ],
            "Resource": "arn:aws:dynamodb:us-west-2:123456789012:table/Books"
        }
    ]
}
```

B.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PutUpdateDeleteOnBooks",
            "Effect": "Allow",
            "Action": [
                "dynamodb: PutItem",
                "dynamodb: UpdateItem",
                "dynamodb: DeleteItem"
            ],
            "Resource": "arn:aws:dynamodb:us-west-2:123456789012:table/*"
        }
    ]
}
```

C.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PutUpdateDeleteOnBooks",
            "Effect": "Allow",
            "Action": "dynamodb:*",
            "Resource": "arn:aws:dynamodb:us-west-2:123456789012:table/Books"
        }
    ]
}
```

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D.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PutUpdateDeleteOnBooks",
            "Effect": "Allow",
            "Action": "dynamodb:*",
            "Resource": "arn:aws:dynamodb:us-west-2:123456789012:table/Books"
        },
        {
            "Sid": "PutUpdateDeleteOnBooks",
            "Effect": "Deny",
            "Action": "dynamodb:*",
            "Resource": "arn:aws:dynamodb:us-west-2:123456789012:table/Books"
        }
    ]
}
```

答案：A

229. Application developers have noticed that a production application is very slow when business reporting users run large production reports against the Amazon RDS instance backing the application. the CPU and memory utilization metrics for the RDS instance-d not exceed 60% while the reporting queries are running. The business reporting users must be able to generate reports without affecting the applications performance. Which action will accomplish this?
A. Increase the size of the RDS instance
B. Create a read replica and connect the application to it
C. Enable multiple Availability Zones on the RDS instance
D. Create a read replication and connect the business reports to it.
答案：D

230. A company's packaged application dynamically creates and returns single-use text files in response to user requests. The company is using Amazon Cloud Front for distribution, but wants to future reduce data transfer costs. The company modify the application's source code.
What should a solution architect do to reduce costs?
A. Use Lambda@ Edge to compress the files as they are sent to users
B. Enable Amazon S3 Transfer Acceleration to reduce the response times
C. Enable caching on the CloudFront distribution to store generated files at the edge.
D. Use Amazon S3 multipart uploads to move the files to Amazon S3 before returning them to users
答案：A

231. A public-facing web application queries a database hosted on a Amazon EC2 instance in a private subnet. A large number of queries involve multiple table joins, and the application performance has been degrading due to an increase in complex queries. The application team will be performing updates to improve performance
What should a solutions architect recommend to the application team? （Select Two.)
A. Cache query data in Amazon SQS
B. Create a read replica to offload queries
C. Migrate the database to Amazon Athena
D. Implement Amazon DynamoDB Accelerator to cache data
E. Migrate the database to Amazon RDS
答案：BE

232. A company has a Microsoft Windows-based application that must be migrated to AWS. This application requires the use of a shared Windows file system attached to multiple Amazon EC2 Windows instances. What should a solution architect do to accomplish this?
A. Configure a volume using Amazon EFS Mount the EPS volume to each Windows Instance

B. Configure AWS Storage Gateway in Volume Gateway mode Mount the volume to each Windows instance

C. Configure Amazon FSx for Windows File Server Mount the Amazon FSx volume to each Windows Instance D. Configure an amazon EBS volume with the required size Attach each EC2 instance to the volume Mount the file system within the volume to each Windows instance

答案：C

233. A company recently expanded globally and wants to make its application accessible to users in those geographic locations. The application is deploying on Amazon EC2 instances behind an Application Load balancer in an Auto Scaling group. The company needs the ability shift traffic from resources in one region to another.
What should a solutions architect recommend？
A. Configure an Amazon Route 53 latency routing policy
B. Configure an Amazon Route 53 geolocation routing policy
C. Configure an Amazon Route 53 geoproximity routing policy
D. Configure an Amazon Route 53 multivalue answer routing policy
答案：C

234. A company has several business systems that require access to data stored in a file share. the business systems will access the file share using the Server Message Block （SMB） protocol. The file share solution should be accessible from both of the company's legacy on-premises environment and with AWS. Which services mod the business requirements？
（Select Two.）
A. Amazon EBS
B. Amazon EFS
C. Amazon FSx for windows
D. Amazon S3
E. AWS Storage Gateway file gateway
答案：CE

235. A company's operations teams has an existing Amazon S3 bucket configured to notify an Amazon SQS queue when new object are created within the bucket. The development team also wants to receive events when new objects are created. The existing operations team workflow must remain intact
Which solution would satisfy these requirements？
A. Create another SQS queue Update the S3 events in bucket to also update the new queue when a new object is created
B. Create a new SQS queue that only allows Amazon S3 to access the queue, Update Amazon S3 update this queue when a new object is created
C. Create an Amazon SNs topic and SQS queue for the Update. Update the bucket to send events to the new topic. Updates both queues to poll Amazon SNS
D. Create an Amazon SNS topic and SQS queue for the bucket updates. Update the bucket to send events to the new topic Add subscription for both queue in the topic
答案：A

236. A company wants to deploy a shared file system for its. NET application servers and Microsoft SQL Server database running on Amazon EC2 instance with Windows Server 2016. The solution must be able to be integrated in to the corporate Active Directory domain, be highly durable, be managed by AWS, and provided levels of throuput and IOPS
Which solution meets these requirements？
A. Use Amazon FSx for windows File Server
B. Use Amazon Elastic File System （Amazon EFS ）
C. Use AWS Storage Gateway in file gateway mode
D. Deploy a Windows file server on two On Demand instances across two Availability Zones
答案：A

237. A company is designing a new service that will run on Amazon EC2 instance behind an Elastic Load Balancer. However, many of the web service clients can only reach IP addresses whitelisted on their firewalls.
What should a solution architect recommend to meet the clients' needs？   What should a solution architect recommend to meet the clients' needs？
A. A Network Load Balancer with an associated Elastic IP address

B. An Application Load Balancer with an a associated Elastic IP address

C. An A record in an Amazon Route 53 hosted zone pointing to an Elastic IP address

D. An EC2 instance with a public IP address running as a proxy in front of the load balancer

答案：C

238. A company is investigating potential solutions that would collect, process, and store users' service usage data.

The business objective is to create an analytics capability that will enable the company to gather operational insights quickly using standard SQL queries.

The solution should be highly available and ensure Atomicity, Consistency, Isolation, and Durability (ACID) compliance in the data tier.

Which solution should a solutions architect recommend?

A. Use Amazon DynamoDB transactions

B. Create an Amazon Neptune database in a Multi AZ design

C. Use a fully managed Amazon RDs for My SQL database in a Multi-AZ design

D. Deploy PostgreSQL on an Amazon EC2 instance that uses Amazon EBS Throughput Optimized HDD（st1）storage

答案：C

239. A company runs a web service on Amazon CC2 instances behind an Application Load Balancer.

The instances run in an Amazon EC2 Auto Scaling group across two Availability zones.

The company needs a minimum of tour instances a！ail limes to meet the required service level agreement （SLA）while keeping costs low.

If an Availability Zone tails, how can the company remain compliant with the SLA?

A. Add a target tracking scaling policy with a short cooldown period

B. Change the Auto Scaling group launch configuration to use a larger instance type

C. Change the Auto Scaling group to use six servers across three Availability Zones

D. Change the Auto Scaling group to use eight servers across two Availability Zones

答案：A

240. An ecommerce company has noticed performance degradation of its Amazon RDS based web application. The performance degradation is attribute to an increase in the number of read-only SQL queries triggered by business analysts.

A solution architect needs to solve the problem with minimal changes to the existing web application.

What should the solution architect recommend?

A. Export the data to Amazon DynamoDB and have the business analysts run their queries

B. Load the data into Amazon ElasticCache and have the business analysts run their queries

C. Create a read replica of the primary database and have the business analysts run their queries

D. Copy the data into an Amazon Redshift cluster and have the business analysts run their queries

答案：C

241. A company is building applications in containers.

The company wants to migrate its on-premises development and operations services from its on-premises data center to AWS

Management states that production system must be cloud agnostic and use the same configuration and administrator tools across production systems

A solutions architect needs to design a managed solution that will align open-source software.

Which solution meets these requirements?

A. Launch the containers on amazon EC2 with EC2 instance worker nodes

B. Launch the containers on Amazon Elastic Kubernetes Service （Amazon EKS） and EKS workers nodes

C. Launch the containers on Amazon Elastic Containers service （Amazon ECS） with AWS Fargate instances

D. Launch the containers on Amazon Elastic Container Service （Amazon EC） with Amazon EC2 instance worker nodes

答案：C

242. A company is running a two-tier ecommerce website using services.

The current architect uses a publish-facing Elastic Load Balancer that sends traffic to Amazon EC2 instances in a private subnet.

The static content is hosted onEC2 instances and the dynamic content is retrieved from a MYSQL database.

The application is running in the United States. The company recently started selling to users in Europe and Australia.

A solution architect needs to design solution so their international users have an improved browsing experience Which solution is MOST cost-effective?

A. Host the entire website on Amazon S3

B. Use Amazon Cloud Front and Amazon S3 to host static images

C. Increase the number of public load balancers and EC2 instances

D. Deploy the two-tier website in AWS Regions in Europe and Austraila

答案：B

243. A database is on an Amazon RDS MYSQL 5.6 Multi-AZ DB instance that experience highly dynamic reads.

Application developers notice a significant slowdown when testing read performance from a secondary AWS Region.

The developers want a solution that provides less than 1 second of read replication latency

What should the solutions architect recommend?

A. Install My SQL on Amazon EC2 in the secondary Region

B. Migrate the database to Amazon Aurora with cross-Region replicas

C. Create another RDS for My SQL read replica in the secondary

D. Implement Amazon ElastiCache to improve database query performance

答案：B

244. An operations team has a standard that states lAM policies should not be applied directly to users.

Some new members have not been following this standard.

The operation manager needs a way to easily identify the users with attached policies.

What should a solutions architect do to accomplish this?

A. Monitor using AWS CloudTrail

B. Create an AWS Config rule to run daily

C. Publish IAM user changes lo Amazon SNS

D. Run AWS Lambda when a user is modified

答案：A

245. A company has established a new AWS account.

The account is newly provisioned and no changed have been made to the default settings.

The company is concerned about the security of the AWS account root user.

What should be done to secure the root user?

A. Create lAM users for daily administrative tasks.   Disable the root user

B. Create lAM users for daily administrative tasks.   Enable multi-factor authentication on the root user

C. Generate an access key for the root user. Use the access key for daily administration tasks instead of the AWS Management Console

D. Provide the root user credentials to the most senior solution architect.   Have the solution architect use the root user for daily administration tasks

答案：B

246. A healthcare company stores highly sensitive patient records.

Compliance requires that multiple copies be stored in different locations Each record must be stored for 7 years. The company has a service level agreement（SLA）to provide records to government agencies immediately for the first 30 days and then within 4 hours of a request thereafter.

What should a solutions architect recommend?

A. Use Amazon S3 with cross-Region replication enabled.
After 30 days, transition the data to Amazon S3 Glacier using lifecycle policy

B. Use Amazon S3 with cross-origin resource sharing（CORS）enabled.
After 30 days, transition the data to Amazon S3 Glacier using a lifecycle policy.

C. Use Amazon S3 with cross-Region replication enabled.
After 30 days, transition the data to Amazon S3 Glacier Deep Achieve using a lifecycle policy

D. Use Amazon S3 with cross-origin resource sharing（GORS）enabled.
After 30 days, transition the data to Amazon S3 Glacier Deep Archive using a lifecycle policy

答案：A

247. A solutions architect must create a highly available bastion host architecture.
The solution needs to be resilient within a single AWs Region and should require only minimal effort to maintain. What should the solutions architect do to meet these requirements?
A. Create a Network Load Balancer backed by an Auto Scaling group with a UDP listener.
B. Create a Network Load Balancer backed by a Spot Fleet with instances in a group with instances in a partition placement group
C. Create a Network Load Balancer backed by the existing serves in different Availability Zones as the target
D. Create a Network Load Balancer backed by an Auto Scaling with instances in multiple Availability zones as the target
答案：D

248. A solutions architect is designing a hybrid application using the AWS cloud. The network between the on-premises data center and AWS will use an AWS Direct Connect（DX）connection The application connectivity between AWS and the on-premises data center must be highly resilient.
Which DX configuration should be implemented to meet these requirements？
A. Configure a DX connection with a VPN on top of it.
B. Configure DX connections at multiple DX locations
C. Configure a DX connection using the most reliable DX partner.
D. Configure multiple virtual interfaces on top of a DX connection
答案：B

249. A company plans to store sensitive user data on Amazon S3
Internal security compliance requirement mandata encryption of data before sending it to Amazon S3
What should a solution architect recommend to satisfy these requirements？
A. Server-side encryption with customer-provided encryption keys
B. Client-side encryption with Amazon S3 managed encryption keys
C. Server-side encryption with keys stored in AWS key Management Service （AWS KMS）
D. Client-side encryption with a master key stored in AWs Key Management Service （AWS KMS）
答案：D

250. A company is using Amazon EC2 to run its big data analytics workloads.
These variable workloads run each night, and it is critical they finish by the start of business the following day. A solutions architect has been tasked with designing the MOST cost-effective solution.
Which solution will accomplish this？
A. Spot Fleet
B. Spot Instances
C. Reserved Instances
D. On-Demand Instances
答案：C

251. A company mandates that an Amazon S3 gateway endpoint must allow traffic to trusted buckets only. Which method should a solutions architect implement to meet this requirement?
A. Create a bucket policy for each of the company's trusted S3 buckets that allows traffic only from the company's trusted VPCs
B. Create a bucket policy for each of the company's trusted S3 buckets that allows traffic only from the company's S3 gateway endpoint IDs
C. Create an S3 endpoint policy for each of the company's S3 gateway endpoints that blocks access from any VPC other than the company' s trusted VPCs
D. Create an S3 endpoint policy for each of the company's S3 gateway endpoints that provides access to the Amazon Resource Name （ARN） of the trusted S3 buckets
答案：D

252. A company is running a highly sensitive application on Amazon EC2 backed by an Amazon RDS database Compliance regulations mandate that all personally identifiable information（PII）be encrypted at rest.
Which solution should a solutions architect recommend to meet this requirement with the LEAST amount of changes to the infrastructure"
A. Deploy AWS Certificate Manager to generate certificates. Use the certificates to encrypt the database volume

B. Deploy AWS CloudHSM. generate encryption keys, and use the customer master key (CMK) to encrypt database volumes

C. Configure SSL encryption using AWS Key Management Service customer master keys （AWS KMS CMKs） to encrypt database volumes

D. Configure Amazon Elastic Block Store（Amazon EBS）encryption and Amazon RDS encryption with AWS Key Management Service （AWS KMS） keys to encrypt instance and database volumes

答案：D

253. A company is creating an architecture for a mobile app that requires minimal latency for its users.

The company's architecture consists of Amazon EC2 instances behind an Application Load.

Balancer running in an Auto Scaling group.

The EC2 instances connect to Amazon RDS. Application beta testing showed there was a slowdown when reading the data However the metrics indicate that the EC2 instances do not cross any CPU utilization thresholds

How can this issue be addressed 1？

A. Reduce the threshold for CPU utilization in the Auto Scaling group

B. Replace the Application Load Balancer with a Network Load Balancer

C. Add read replicas for the RDS instances and direct read traffic to the replica

D. Add Multi-AZ support to the EDS instances and direct read traffic to the new EC2 instance

答案：C

254. A company is migrating a NoSQL database cluster to Amazon EC2.The database automatically replicates data to maintain at least three copies of the data I/O throughput of the servers is the highest priority.

Which instance type should a solutions architect recommend for the migration？

A. Storage optimized instances with instance store

B. Burstable general purpose instances with an Amazon Elastic Block Store （Amazon EBS） volume

C. Memory optimized instances with Amazon Elastic Block Store （Amazon EBS） optimization enabled

D. Compute optimized instances with Amazon Elastic Block Store （Amazon EBS） optimization enabled

答案：C

255. A company operates a website on amazon EC2 Linux instances.

Some of the instances are faring Troubleshooting points to insufficient swap space on the failed instances.

The operations team lead needs a solution to monitor this

What should a solutions architect recommend？

A. Configure an Amazon CloudWatch SwapUsage metric dimension. Monitor the SwapUsage dimension in the EC2 metrics in Cloud Watch

B. Use EC2 metadata to collect information, then publish it to Amazon CloudWatch custom metrics Monitor SwapUsage metrics in CloudWatch

C. Install an Amazon CloudWatch agent on the instances Run an appropriate script on a set schedule.Monitor SwapUtilizalion metrics in CloudWatch

D. Enable detailed monitoring in the EC2 console Create an Amazon CloudWatch SwapUtilizalion custom metric Monitor SwapUtilization metrics in CloudWatch

答案：D

256. A company has two applications it wants to migrate to AWS.

Both applications process a large set of files by accessing the same files at the same time.

Both applications need to read the files with low latency Which architecture should a solutions architect recommend for this situation？

A. Configure two AWS Lambda functions to run the applications

Create an Amazon EC2 instance with an instance store volume to store the data

B. Configure two AWS Lambda functions to run the applications

Create an Amazon EC2 instance with an Amazon Elastic Block Store （Amazon EBS） volume to store the data

C. Configure one memory optimized Amazon EC2 instance to run both applications simultaneously。

Create an Amazon Elastic Block Store （Amazon EBS） volume with Provisioned IOPS to store the data

D. Configure two Amazon EC2 instances to run both applications。

Configure Amazon Elastic File System （Amazon EFS） with General Purpose performance mode and Bursting. Throughput mode to store the data

答案：D

257. A company requires a durable backup storage solution for its on-premises database servers while ensuring on-premises applications maintain access to these backups for quick recovery.

The company will use AWS storage services as the destination for these backups.

A solutions architect is designing a solution with minimal operational overhead.

Which solution should the solutions architect implement？

A. Deploy an AWS Storage Gateway file gateway on-premises and associate it with an Amazon S3 bucket

B. Back up the databases to an AWS Storage Gateway volume gateway and access it using the Amazon S3 API C. Transfer the database backup files to an Amazon Elastic Block Store（Amazon EBS）volume attached to an Amazon EC2 instance

D. Back up the database directly to an AWS Snowball device and uss lifecycle rules to move the data to Amazon S3 Glacier Deep Archive.

答案：A

258. A company has a web server running on an Amazon EC2 instance in a public subnet with an Elastic IP address.

The default security group is assigned to the EC2 instance.

The default network ACL has been modified to block all traffic.

A solutions architect needs to make the web server accessible from everywhere on port 443

Which combination of steps will accomplish this task？（Select TWO.)

A. Create a security group with a rule to allow TCP port 443 from source 0.0.0.0/0

B. Create a security group with a rule to allow TCP port 443 to destination 0.0.0.0/0

C. Update the network ACL to allow TCP port 443 from source 0.0.0.0/0

D. Update the network ACL to allow inbound/outbound TCP port 443 from source 0.0.0.0/0 and to destination 0.0.0.0/0

E. Update the network ACL to allow inbound TCP port 443 from source 0.0.0.0/0 and outbound TCP port 32768-65535 to destination 0.0.0.0/0

答案：AE

259. A company hosts its website on AWS. To address the highly variable demand, the company has implemented Amazon EC2 Auto Scaling

Management is concerned that the company is over-provisioning its infrastructure, especially at the front end of the three-tier application

A solutions architect needs to ensure costs are optimized without impacting performance.

What should the solutions architect do to accomplish this?

A. Use Auto Scaling with Reserved Instances

B. Use Auto Scaling with a scheduled scaling policy

C. Use Auto Scaling with the suspend-resume feature

D. Use Auto Scaling with a target tracking scaling policy.

答案：C

260. A company is concerned that two NAT instances in use will no longer be able to support the traffic needed for the company's application.

A solutions architect wants to implement a solution that is highly available fault tolerant, and automatically scalable.

What should the solutions architect recommend？

A. Remove the two NAT instances and replace them with two NAT gateways in the same Availability Zone

B. Use Auto Scaling groups with Network Load Balancers for the NAT instances in different Availability Zones

C. Remove the two NAT instances and replace them with two NAT gateways in different Availability Zones

D. Replace the two NAT instances with Spot Instances in different Availability Zones and deploy a Network Load Balancer

答案：C

261. A solutions architect is working on optimizing a legacy document management application running on Microsoft Windows Server in an on-premises data center.

The application stores a large number of files on a network file share

The chief information officer wants to reduce the on-premises data center footprint and minimize storage costs by moving on-premises storage to AWS

What should the solutions architect do to meet these requirements？

A. Set up an AWS Storage Gateway file gateway

B. Set up Amazon Elastic File System（Amazon EFS）

C. Set up AWS Storage Gateway as a volume gateway

D. Set up an Amazon Elastic Block Store（Amazon EBS）volume

答案：A

262. A company is processing data on a daily basis.

The results of the operations are stored in an Amazon S3 bucket, analyzed daily for one week, and then must remain immediately accessible for occasional analysis.

What is the MOST cost-effective storage solution alternative to the current configuration？

A. Configure a lifecycle policy to delete the objects after 30 days

B. Configure a lifecycle policy to transition the objects to Amazon S3 Glacier after 30 days

C. Configure a lifecycle policy to transition the objects to Amazon S3 Standard-Infrequent Access（S3 Standard-IA）after 30 days

D. Configure a lifecycle policy to transition the objects to Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days

答案：C

263. A recent analysis of a company's IT expenses highlights the need to reduce backup costs.

The company's chief information officer wants to simplify the on-premises backup infrastructure and reduce costs by eliminating the use of physical backup tapes.

The company must preserve the existing investment in the on-premises backup applications and workflows

What should a solutions architect recommend ？

A. Set up AWS Storage Gateway to connect with the backup applications using the NFS interface

B. Set up an Amazon EFS file system that connects with the backup applications using the NFS interface

C. Set up an Amazon EFS file system that connects with the backup applications using the iSCSI interface

D. Set up AWS Storage Gateway to connect with the backup applications using the iSCSI-virtual tape library （VTL）interface

答案：D

264. A company wants to replicate its data to AWS to recover in the event of a disaster

Today, a system administrator has scripts that copy data to a NFS share Individual backup files need to be accessed with low latency by application administrators to deal with errors in processing.

What should a solutions architect recommend to meet these requirements？

A. Modify the script to copy data to an Amazon S3 bucket instead of the on-premises NFS share

B. Modify the script to copy data to an Amazon S3 Glacier Archive instead of the on-premises NFS share

C. Modify the script to copy data to an Amazon Elastic File System（Amazon EFS）volume instead of the on-premises NFS share

D. Modify the script to copy data to an AWS Storage Gateway for File Gateway virtual appliance instead of the on-premises NFS share

答案：D

265. A company that develops web applications has launched hundreds of Application Load Balancers（ALBs）in multiple Regions

The company wants to create an allow list（or the IPs of all the load balancers on its firewall device

A solutions architect is looking for a one-time, highly available solution to address this request,

which will also help reduce the number of IPs that need to be allowed by the firewall

What should the solutions architect recommend to meet these requirements？

A. Create a AWS Lambda function to keep track of the IPs for all the ALBs in different Regions Keep refreshing this list

B. Set up a Network Load Balancer（NLB）with Elastic IPs
Register the private IPs of all the ALBs as targets to this NLB

C. Launch AWS Global Accelerator and create endpoints for all the Regions
Register all the ALBs in different Regions to the corresponding endpoints

D. Set up an Amazon EC2 instance, assign an Elastic IP to this EC2 instance, and configure the instance as a proxy to forward traffic to all the ALBs

答案：C

266. A company recently implemented hybrid cloud connectivity using AWS Direct Connect and is migrating data to Amazon S3

The company is looking for a fully managed solution that will automate and accelerate the replication of data between the on-premises storage systems and AWS storage services.

Which solution should a solutions architect recommend to keep the data private?

A. Deploy an AWS Data Sync agent tor the on-premises environment.
Configure a sync job to replicate the data and connect it with an AWS service endpoint

B. Deploy an AWS Data Sync agent for the on-premises environment Schedule a batch job to replicate point-In-time snapshots to AWS.

C. Deploy an AWS Storage Gateway volume gateway for the on-premises environment Configure it to store data locally, and asynchronously back up point-in-time snapshots to AWS

D. Deploy an AWS Storage Gateway file gateway for the on-premises environment Configure it to store data locally, and asynchronously back up point-in-lime snapshots to AWS

答案：C

267. A company has an on-premises data center that is running out of storage capacity

The company wants to migrate its storage infrastructure to AWS while minimizing bandwidth costs

The solution must allow for immediate retrieval of data at no additional cost How can these requirements be met?

A. Deploy Amazon S3 Glacier Vault and enable expedited retrieval
Enable provisioned retrieval capacity for the workload

B. Deploy AWS Storage Gateway using cached volumes
Use Storage Gateway to store data in Amazon S3 while retaining copies of frequently accessed data subsets locally

C. Deploy AWS Storage Gateway using stored volumes to store data locally
Use Storage Gateway to asynchronously back up point-in-time snapshots of the data to Amazon S3

D. Deploy AWS Direct Connect to connect with the on-premises data center
Configure AWS Storage Gateway to store data locally Use Storage Gateway to asynchronously back up potnt-tn-time snapshots of the data to Amazon

答案：B

268. A company Is reviewing Its AWS Cloud deployment to ensure its data is not accessed by anyone without appropriate authorization

A solutions architect is tasked with identifying all open Amazon S3 buckets and recording any S3 bucket configuration changes

What should the solutions architect do to accomplish this?

A. Enable AWS Config service with the appropriate rules

B. Enable AWS Trusted Advisor with the appropriate checks

C. Write a script using an AWS SDK to generate a bucket report

D. Enable Amazon S3 server access logging and configure Amazon CloudWatch Events

答案：A

269. A company built an application that lets users check in to places they visit, rank the places. and add reviews about their experiences.

The application is successful with a rapid increase in the number of users every month.

The chief technology officer fears the database supporting the current Infrastructure may not handle the new load the following month because the single Amazon RDS for MySQL instance has triggered alarms related 10 resource exhaustion due to read requests.

What can a solutions architect recommend to prevent service Interruptions at the database layer with minimal changes to code?

A. Create RDS read replicas and redirect read-only traffic to the read replica endpoints. Enable a Multi-AZ deployment

B. Create an Amazon EMR cluster and migrate the data to a Hadoop Distributed File System (HDFS) with a replication factor of 3.

C. Create an Amazon ElastiCache cluster and redirect all read-only traffic to the cluster. Set up the cluster to be deployed m three Availability Zones.

D. Create an Amazon DynamoDB table to replace the RDS instance and redirect all read-only traffic to the DynamoDB table. Enable DynamoDB Accelerator to offload traffic from the main table.

答案：A

270. A solutions architect must design a solution for a persistent database that is being on- premises to AWS.

The database requires 64,000 IOPS according to the database administrator.

If possible, the database administrator wants to use a single Amazon Elastic Block (Amazon EBS) volume to host the database instance.

Which solution effectively meets the database administrator's criteria?

A. Use an instance from the 13 1/O optimized family and leverage local ephemeral storage to achieve the IOPS requirement.

B. Create an Nitro-based Amazon EC2 instance with an Amazon EBS Provisioned IOPS SSD （io1） volume attached. Configure the volume to have 64,000 IOPS.

C. Create and map an Amazon Elastic File System (Amazon EFS) volume to the database instance and use the volume to achieve the required IOPS for the database.

D. Provision two volumes and assign 32,000 IOPS to each. Create a logical volume at the operating system level that aggregates both volumes to achieve the IOPS requirements.

答案：B

271. **A company has migrated an on-premises Oracle database to an Amazon RDS (or Oracle Multi- AZ DB instance In the us-east-I Region.**

A solutions architect is designing a disaster recovery strategy to have the database provisioned in the us-west-2 Region in case the database becomes unavailable in the us-east-I Region.

The design must ensure the database is provisioned in the us-west-2 Region in a maximum of 2 hours, with a data loss window of no more than 3 hours.

How can these requirements be met?

A. Edit the DB instance and create a read replica in us-west-2.
Promote the read replica to master In us- west-2 in case the disaster recovery environment needs to be activated.

B. Select the multi-Region option to provision a standby instance in us-west-2.
The standby Instance will be automatically promoted to master In us-west-2 in case the disaster recovery environment needs to be created.

C. Take automated snapshots of the database instance and copy them to us-west-2 every 3 hours.
Restore the latest snapshot to provision another database instance in us-west-2 in case the disaster recovery environment needs to be activated

D. Create a multimaster read/write instances across multiple AWS Regions Select VPCs in us-east-1 and us-west-2 10 make that deployment.
Keep the master read/write instance in us-west-2 available to avoid having to activate a disaster recovery environment.

答案：A

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

A. Use Amazon Kinesis Data Streams to ingest the data. Process the data using AWS Lambda functions.

B. Use Amazon API Gateway on top of the existing application. Create a usage plan with a quota limit for the third-party vendor.

C. Use Amazon Simple Notification Service (Amazon SNS) to ingest the data. Put the EC2 instances in an Auto Scalinq qroup behind an Application Loacd Balancer.

D. Repackage the application as a container.Deploy the application using Amazon Elastic Container Service(Amazon ECS) using the EC2 launch type with an Auto Scaling group.

答案：A

273.**A company must migrate 20 TB of data from a data center to the AWS Cloud within 30 days.**
The company's network bandwidth is limited to 15 Mbps and cannot excceed 70% utilization.
What should a solutions architect do to meet these requirements?

A. Use AWS Snowball.

B. Use AWS DataSync.

C. Use a secure VPN connection.

D. Use Amazon S3 Transfer Acceleration.

答案：A

274.**A company recently deployed a two-tier application in two Availability Zones in the us-east-1 Region. The databases are deployed in a private subnet while the web servers are deployed in a public subnet. An internet gateway is attached to the VPC. The application and database run on Amazon EC2 instances. The database servers are unable to access patches on the internet. A solutions architect needs to design a solution that maintains database security with the least operational overhead.**

Which solution meets these requirements?

A. Deploy a NAT gateway inside the public subnet for each Availability Zone and associate it with an   Elastic IP address. Update the routing table of the private subnet to use it as the default route.

B. Deploy a NAT gateway inside the private subnet for each Availability Zone and associate it with an Elastic IP address. Update the routing table of the private subnet to use it as the default route.

C. Deploy two NAT instances inside the public subnet for each Availability Zone an associate them with Elastic IPaddresses. Update the routing table of the private subnet to use it as the default route.

D. Deploy two NAT instances inside the private subnet for each Availability Zone and associate them wilth Elastic IP addresses.

Update the routing table of the private subnet to use it as the default route.

答案：B

275.**A company recently launched its website to serve content to its global user base.**

The company wants to store and accelerate the delivery of static content to its users by

leveraging Amazon CloudFront with an Amazon EC2 instance attached as its origin.

How should a solutions architect optimize high availability for the application?

A. Use Lambda@Edge for CloudFront.

B. Use Amazon S3 Transfer Acceleration for CloudFront.

C. Configure another EC2 instance in a different Availability Zone as part of the origin group.

D. Configure another EC2 instance as part of the origin server cluster in the same Availability Zone.

答案：A

276.**A company is planning to build a new web application on AWS.**

The company expects predictable trafic most of the year and very high traffic on occasion. The web application needs to be highly available and fault tolerant with minimal latency. What should a solutions architect recommend to meet these requirements?

A. Use an Amazon Route 53 routing policy to distribute requests to two AWS Regions,eachwith one Amazon EC2 instance.

B. Use Amazon EC2 instances in an Auto Scaling group with an Application Load Balancr across multiple Avallability Zones.

C. Use Amazon EC2 instances in a cluster placement group with an Application Load Balancer across multiple Availability Zones.

D. Use Amazon EC2 instances in a cluster placement group and include the cluster pacement

group within a new Auto Scaling group

答案：B

277.**A company wants to migrate a workload to AWS.**

The chet infomation securty offce requires thatall ata be encrypted at est when stored in the cloud.

The company wants complete control of encrption key ificoce management. independently of AWS CloudTrall.

The chosen servces should integrate with other storage services that wil e usod on AWS.

A. AWS CloudHSM with the CloudHSM cient

B. AWS Key Management Service(AWS KMS) wth AWS CloudHSM

C. AWS Key Management Service(AWS KMS) with an external key material origin

D. AWS Key Management Service(AWS KMS)with AWS managed cusomermases(a

答案：B

278.A company is looking for a solution that can store video archives in AWS rom old news fotage. The company needs to minimize costs and wll rarely need to restore these fles. When the files are needed,they must be available in a maximum of fve minutes.

What is the MOST cost-effective solution?

A. Sltore the video archives in Amazon S3 Glacier and use Expodled retievals.

B. Store the video archivesin Amazon S3 Glacier and use Standard retrievals.

C. Store the video archvesin Amazon S3 Stardard-intfrequent Access(S3 Standard-IA)

D. Store the video archives in Amazon S3 One Zone-nfrequent Access(S3 One Zone-IA).

答案：A

279.A company wants to use Amazon S3 for the secondary copy of is on-premises dataset.

The company would rarely need to access this copy. The storage solution's cost should be minimal.

Which storage solution mees these requirements?

A. S3 Standard

B. S3 Intelligent-Tering

C. S3 Standard-Infrequent Access(S3 Standard-IA)

D. S3 One Zone-Infrequent Access(S3One Zone-IA)

答案：D

280.A company has enabled AWS CloudTrail logs to deliver log files to an Amazon S3 bucket for each of its developer accounts. The company has created a central AWS account for streamlining management and audit reviews.

An internal auditor needs to access the CloudTrail logs，yet access needs to be restricted for all developer account users. The solution must be secure and optimized. How should a solutions architect meet these requirements?

A. Configure an AWS Lambda function in each developer account to copy the log files to the central account. Create a IAM role in the central account for the auditor. Attach an IAM policy providing read-only permissions to the bucket.

B. Configure CloudTrail from each developer account to deliver the log files to an S3 bucket in the central account Create an IAM user in the central account for the auditor. Attach an IAM policy providing full permissions to the bucket

C. Configure CloudTrail from each developer account to deliver the logfiles to an S3 bucket in the central account. Create an IAM role in the central account for the auditor. Attach an IAM policy providing read-only permissions to the bucket.

D. Configure an AWS Lambda function in the central account to copy the log files from the S3 bucket in each developer account. Create an IAM user in the central account for the auditor. Attach an IAM policy providing full permissions to the bucket

答案：C

281.A company has an applcation that posts messages to Amazon SQS Anotherapplication polls the queue and processes the messages in an I/O-intensive operation.

The company has a service level agreement(SLA) that specfes the maximum amount of time that can elapse between receiving the messages and responding to the users.

Due to an increase in the number of messages the company has dificlty meeing its SLA consistently.

What should a solutions architect do to help improve the application's processing time and ensure it can handle the load at any level?

A. Create an Amazon Machine Image(AMI)from the instance used for processing. Terminate the instance and replace it with a larger size

B. Create an Amazon Machine Image(AM)from the instance used for processing. Terminate the instance and replace it with an Amazon EC2 Dedicated Instance

C. Create an Amazon Machine image(AMI) from the instance used for processing.

Create an Auto Scaling group using this image in its launch configuration.

Configure the group with a target tracking polcy to keep us aggregate CPU utilzation below 70%

D. Create an Amazon Machine Image(AMI) from the instance used for processing.

Create an Auto Scaling group using this image in its launch configuration.

Configure the group with a target tracking policy based on the age of the oldest message in the SQS queue.

答案：D

282.A company is planning to deploy an Amazon RDS DB instance running Amazon Aurora.

The company has a backup retention policy requirement of 90 days

Which solution should a solutions architect recommend?

A. Set the backup retention period to 90 days when creating the RDS DB instance

B. Configure RDS to copy automated snapshots to a user-managed Amazon S3 bucket with a lifecycle policy set to delete after 90 days.

C. Create an AWS   Backup plan to perform a daily snapshot of the RDS database with the retention set to 90 days. Create an AWS Backup job to schedule the execution of the backup plan daily

D. Use a daily scheduled eventwth Amazon CloudWatch Events to execute a custom AWS Lambda funcion that makes a copy of the RDS automated snapshot Purge snapshots older than 90 days

答案：C

283.A company is using a tape backup solution to store is key applcation data ofste. The daily data volume is around 50 TB.

The company needs to retain the backups for 7 years for regulatory purposes.

The backups are rarely accessed and a week's notice is typicaly given if a backup needs to be restored

The company is now considering a cloud-based option to reduce the storage costs and

operational burden of managing tapes

The company also wants to make sure that the transition (rom tape backups to the cloud minimizes disruptions.

Which storage solution is MOST cost-effectve'?

A.Use Amazon Storage Gateway to back up to Amazon Glacier Deep Archive

B. Use AWS SnowballEdge to dirctly integrate the backups with Amazon S3 Glacier.

C. Copy the backup data to Amazon S3 and create alifecycle policy to move the data to Amazon S3 Glacier

D. Use Amazon Storage Gateway to back up to Amazon S3 and create alifecycle policy to move the backup to Amazon S3 Glacier.

答案：A

284.A company relies on an application that needs at least 4 Amazon EC2 instances during regular taffic and must scale up to 12 EC2 instances during peak loads.

The application is critical othe business and must be highly available

Which solution will meet these requirements?

A. Deploy the EC2 instances in an Auto Scaling group.

Set the minimum to 4 and the maximum to M, with 2 in Availabiliy Zone A and 2 in Availabliy Zone B

B.Deploy the EC2 instances in an Auto Scaling group.

Set the minimum to 4 and the maximum to 12,with all 4 in Avalailly Zone A

C. Deploy the EC2 instances in an Auto Scaling group.

Set the minimum to 8 and the maximum to 12,with 4 in Availabilty Zone A and 4 in Avalabity Zone B

D. Deploy the EC2 instances in an Auto Scaling group.

Set the minimum to 8 and the maximum to 12 with all 8 in Avalablity Zone A

答案：A

285.A company is planing to migrate its virtual server-based workloads to AWS The company has internet-facing load balancers backed by application servers.

The aplication servers rely on patches fom an intemet-hosted repository

Which services should asoutions archtect recommend be hosted on the publc subnet?(Select TWO.)

A NAT gateway

B.Amazon RDS DB instances

C. Application Load Balancers

D. Amazon EC2 application servers

E. Amazon Elastic File System (Amazon EFS) Volumes

答案：CD

286.An application is running on Amazon EC2 instances Sensitve information required for the application is stored in an Amazon S3 bucket.

The bucket needs to be protected from internet access while only allowing serices wthin the VPC access to the bucket.
Which combination of actions should a solutions archived take to accomplish this"(Select TWO)
A.   Create a VPC endpoint for Amazon S3.
B.   Enable server access logging on the bucket
C.   Apply a bucke policy to restrict ccessto the S3 endpoint
D. Add an S3 ACL to the bucket that has sensitive information
E. Restrictusers using the IAM policy to use the specific bucket
答案：AC

287.A solutions architect is designing a muti-Region disaster recovery solution for an aplication that will provide public API access.The aplication will use Amazon EC2 instances with a userdata script to load application code and an Amazon RDS for MySQL database.The Recovery Time Objective (RTO) is 3 hours and the Recovery Point Objective (RPO) is 24 hours.
Which architecture would meet these requirements at the LOWEST cost?
A.   Use an Applcatio Load Balancer for Region failover. Deploy new EC2 instances with the userdata script. Deploy separate RDS instances in each Region
B.   Use Amazon Route 53 for Regio failover. Deploy new EC2 instances with the userdata script. Create aread replica of the RDS instance in a backup Region
C. Use Amazon API Gateway for the public APls and Region failover.Deploy new EC2 instances with the userdata script Create a MySQL read replica of the RDS instance in a backup Region
D. Use Amazon Route 53 for Region failover.Deploy new EC2 instances with the userdata scnpt for APls,and create a snapshot of the RDS instance daily for a backup. Replicate the snapshot to a backup Region
答案：D

288. A solutions architect is designing a new APl using Amazon API Gateway that will receive requests from users. The volume of requests is highly variable, several hours can pass without receiving a single request
The data processing wil take place asynchronously but should be completed within a few seconds after a request is made
Which compute service should the solutions architect have the API invoke to deliver the requirements at the lowest cost?
A. An AWS Glue job
B. An AWS Lambda function
C. A containerized serice hosted in Amazon Elastic Kubemetes Senvice(Amazon EKS)
D. A containerized service hosted in Amazon ECS with Amazon EC2
答案：B

289.A development team needs to host a website that will be accessed by other teams. The website contents. consist of HTML. CSS, client side JavaScript, and images.
Which method is the MOST cost-efective for hosting the website?
A. Containerze the website and host it in AWS Fargate
B. Create an Amazon S3 bucket and host the website there.
C. Deploy a web server on an Amazon EC2 instance to host the website.
D. Configure an Appication Load Balancerwth an AWS Lambda target that uses the Express is framework.
答案：B

290. A company has media and application files that need to be shared internall.
Users currently are authenticated using Active Directory and access files from a Microsoft
Windows platform
The chief execute officer wants to keep the same user permissions, but wants the company to improve the process as the company is reaching is storage capacity limit.
What should a solutions architect recommend?
A. Set up a corporate Amazon S3 bucket and move and media and application files.
B. Configure Amazon FSx for Windows File Server and move allthe media and application files.
C. Configure Amazon Elastic File System(Amazon EFS)and move all media and application files.

D. Set up Amazon EC2 on Windows, attach multiple Amazon Elastic Block Store (Amazon EBS) volumes and move all media and application files

答案：B

291.A company is moving itslegacy workload to the AWS Cloud.
The workoad files will be shared,appended, and frequenty accassed trough Amazon EC2 instances when they are first created.
The fles will be accessed occasionally as they age
What should a solutions architect recommend?
A. Store the data using Amazon EC2 instances with attached Amazon Elastic Block Store (Amazon EBS) data volumes
B. Store the data using AWS Storage Gateway volume gateway and export rarely accessed data to Amazon S3 storage
C. Store the data using Amazon Elastic File System (Amazon EFS) with ifecycle management enabled for rarely accessed data
D.Store the data using Amazon S3 with an S3 lifecycle policy enabled to move data to S3 Standard-Infrequent Access(S3 Standard-IA)

答案：D

292.A company is deploying a multi-instance application within AWS that requires minimal latency between the instances.
What should a solutions architect recommend?
A. Use an Auto Scaling group with a cluster placement group.
B. Use an Auto Scaling group with single Availbility Zone in the same AWS Region.
C. Use an Auto Scaling group with multiple Avalabiliy Zones in the same AWS Region.
D. Use a Network Load Balancer with multiple Amazon EC2 Dedicated Hosts as the targets

答案：A

293.Company is designing a website that uses an Amazon S3 bucketto store static images. The company wants ail future requests have taster response times   while reducing both latency and cost
Which service confguration should a solutions architect recommend?
A.   Deploy a NAT server in front of Amazon S3.
B. Deploy Amazon CloudFront in front of Amazon S3.
C. Deploy a Network Load Balancer in front of Amazon S3.
D. Configure Auto Scaling to automaticlly ajust the capacty of tewebste.

答案：B

294.What should a solutions architect do to ensure thatall objects uploaded to an Amazon S3 bucket are encrypted?
A. Update the bucket policy to deny if the PutObject does not have an s3x-amz-acl header set
B. Update the bucket policy to deny if the PutObject does not have an s3x-amz-acl header set to private
C. Update the bucket policy to deny if the PutObject does not have an aws SecureTransport header set to true
D. Update the bucket policy to deny if the PutObject does not have an x-amz-server-side-encryption header set

答案：D

295.A company runs a high performance computing (HPC) workload on AWS.
The workload required low-latency network performance and high network throughput with tightly coupled node-to-node communication.
The Amazon EC2 instances are properly sized for compute and storage capacity, and are launched using default options.
What should a solutions architect propose to improve the performance of the workload ?
A. Choose a cluster placement group while launching Amazon EC2 instances
B. Choose dedicated instance tenancy while launching Amazon EC2 instances
C. Choose an Elastic instance accelerator while launching Amazon EC2instances
D. Choose the required capacity reservation while launching Amazon EC2 instances.

答案：A

296. A company is building a media-sharing application and decides to use Amazon S3 for storage. When a media file is uploaded the company starts a multi-step process to create thumbnails, identify objects in the images, transcode videos into standard formats and resolutions and extract and store the metadata to an Amazon DynamoDB table.

The metadata is used for searching and navigation. The amount of traffic is variable The solution must be able to scale to handle spikes in load without unnecessary expenses.

What should a solutions architect recommend to support tis workload?

A. Build the processing into the webstie or mobile app used to upload the content to Amazon S3. Save the required data to the DynamoDB table when the objects are uploaded

B. Trigger AWS Step Functions when an object is stored in the S3 bucket.

Have the Step Functions perform the steps needed to process the object and then write the metadata to the DynamoDB table

C. Trigger an AWS Lambda function when an object is stored in the S3 bucket

Have the Lambda function start AWS Batch to perform the steps to process the object.

Place the object data in the DynamoDB table when complete

D. Trigger an AWS Lambda function to store an initial entry in the DynamoDB table when an object is uploaded to Amazon S3.

Use a program running on an Amazon EC2 instance in an Auto Scaling group to poll the index for unprocess use the program to perform the processing

答案：D

297. A company has recently updated its internal security standards.

The company must now ensure all Amazon S3 buckets and Amazon Elastic Block Store (Amazon EBS) volumes are encrypted with keys created and periodically rotated by internal security specialists.

The company is looking for a native, software-based AWS service to accomplish this goal.

What should a solutions architect recommend as a solution?

A. Use AWS Secrets Manager with customer master keys （CMKs）to store master key material and apply a routine to create a new CMK periodically and replace it in AWS Secrets Manager

B. Use AWS Key Management Service（AWS KMS）with customer master keys（CMKs）to store master key material and apply a routing to re-create a new key periodically and replace it in AWS KMS

C. Use an AWS CloudHSM cluster with customer master keys （CMKs）to store master key material and apply a routine a re-create a new key periodically and replace it in the CloudHSM cluster nodes

D. Use AWS Systems Manager Parameter Store with customer master keys（CMKs） keys to store master key material and apply a routine to re-create a new periodically and replace it in the Parameter Store

答案：A

298. A solution architect must design a solution that uses Amazon CloudFront with an Amazon S3 to store a static website.

The company security policy requires that all websites traffic be inspected by AWS WAF.

How should the solution architect company with these requirements？

A. Configure an S3 bucket policy to accept requests coming from the AWS WAF Amazon Resource Name （ARN）only

B. Configure Amazon CloudFront to forward all incoming requests to AWS WAF before requesting content from the S3 origin

C. Configure a security group that allows Amazon CloudFront IP addresses to access Amazon S3 only Associate AWS WAF to CloudFront

D. Configure Amazon CloudFront and Amazon S3 to use an origin access identity （OAI）to restrict access to the S3 bucket. Enable AWS WAF on the distribution

答案：D

299. A company has copied 1 PB of data from a colocation facility to an Amazon S3 bucket in the us-east-1 Region using an AWS Direct Connect link

The company now wants to copy the data to another S3 bucket in the us-west-2Region.

The colocation facility does not allow the use AWS Snowball.

What should a solutions architect recommend to accomplish this?

A. Order a Snowball Edge device to copy the data from one Region to another Region

B. Transfer contents from the source S3 bucket to a target S3 bucket using the S3 console

C. Use the AWS S3 sync command to copy data from the source bucket to the destination bucket

D. Add a cross-Region replication configuration to copy objects across S3 buckets in different Reg

答案：D

300. An engineering team is developing and deploying AWS Lambda functions
The team needs to create roles and manage policies in AWS lAM to configure the permissions of the Lambda functions
How should the permissions for the team be configured so they also adhere to the concept of least privilege？
A. Create an IAM role with a managed policy attached. Allow the engineering team and the Lambda functions to assume this role
B. Create an lAM group for the engineering team with an lAMFullAccess policy attached.
Add all the users from the team to this IAM group
C. Create an execution role for the lambda functions.
Attach a managed policy that has permission boundaries specific to these Lambda functions
D. Create an lAM role with a managed policy attached that has permission boundaries specific to the Lambda functions.
Allow the engineering team to assume this role

答案：D

302. A company is building a payment application that must be highly available even during regional service disruptions.
A solutions architect must design a data storage solution that can be easily replicated and used in other AWS Regions.
The application also requires low-latency atomicity, consistency. isolation, and durability (ACID) transactions that need to be immediately available to generate reports. The development team also needs to use SQL.
Which data storage solution mees these requirements?
A. Amazon Aurora Global Database
B. Amazon DynamoDB global tables
C. Amazon S3 with cross-Region replication and Amazon Athena
D. MySOL on Amazon EC2 instances with Amazon Elastic Block Store (Amazon EBS) snapshot

答案：C

303.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）

答案：B

304. A company uses a legacy on-premises analytics application that operates on gigabytes of .csv files and represents months of data.
The legacy application cannot handle the growing size of csv files New csv files are added daily from various data sources to a central on-premises storage location.
The company wants to continue to support the legacy application while users learn AWS analytics services.
To achieve this, a solutions architect wants to maintain two synchronized copies of all the csv files on-premises and in Amazon S3
Which solution should the solutions architect recommend？
A. Deploy AWS DataSync on-premises.
Configure DataSync to continuously replicate the csv files between the company's on-premises storage and the company's S3 bucket
B. Deploy an on-premises file gateway.
Configure data sources to write the csv files to the file gateway.
Point the legacy analytics application to the file gateway
The file gateway should replicate the csv files to Amazon S3
C. Deploy an on-premises volume gateway.
Configure data sources to write the csv files to the volume gateway.
Point the legacy analytics application to the volume gateway.

The volume gateway should replicate data to Amazon S3

D. Deploy AWS Data Sync on-premises Configure Data Sync to continuously replicate the csv files between on-premises and Amazon Elastic File System（Amazon EFS）

Enable replication from Amazon EFS to the company's S3 bucket

答案：B

305. 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 A solutions architect needs to optimize the application's performance quickly.

What should the solutions architect recommend?

A. Change the existing database to a Mut-AZ deployment.

Serve the read requests from the primary Availability Zone.

B. Change the existing database to a Multi-AZ deployment.

Serve the read requests from the secondary Availability Zone.

C. Create read replicas for the database.

Configure the read replicas with half of the compute and storage resources as the source database

D. Create read replicas for the database.

Configure the read replicas with the same compute and storage resources as the source database.

答案：D

306. A company wants to optimize the cost of its data storage for data that is accessed quarterly. The company requires high throughput, low latency, and rapid access, when needed.

Which Amazon S3 storage class should a solutions architect recommend?

A. Amazon S3 Glacier（S3 Glacier）

B. Amazon S3 Standard（S3 Standard）

C. Amazon S3 Intelligent-Tiering（S3 Intelligent-Tiering）

D. Amazon S3 Standard-Infrequent Access（S3 Standard-IA）

答案：C

307. A company requires that all versions of objects in its Amazon S3 bucket be retained Current object versions will be frequently accessed during the first 30 days, after which they will be rarely accessed and must be retrievable within 5 minutes.

Previous object versions need to be kept forever, will be rarely accessed, and can be retrieved within 1 week. All storage solutions must be highly available and highly durable.

What should a solutions architect recommend to meet these requirements in the MOST cost-effective manner ?

A. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 Glacier after 30 days and moves previous object versions to S3 Glacier after 1 day

B. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 Glacier after 30 days and moves previous object versions to S3 Glacier Deep Archive after 1 day

C. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 Standard-infrequent Access（S3 Standard-IA） after 30 days and moves previous object versions to S3 Glacier Deep Archive after 1 day

D. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 One Zone-Infrequent Access（S3 One Zone-IA）after 30 days and moves previous object versions to S3 Glacier Deep Archive after 1 day

答案：C

308. A company hosts its core network services, including directory services and DNS. in its on-premises data center. The data center is connected to the AWS Cloud using AWS Direct Connect（DX）Additional AWS accounts are planned that will require quick, cost-effective, and consistent access to these network services

What should a solutions architect implement to meet these requirements with the LEAST amount of operational overhead?

A. Create a DX connection in each new account. Route the network traffic to the on-premises servers

B. Configure VPC endpoints in the DX VPC for all required services. Route the network traffic to the on-premises servers

C. Create a VPN connection between each new account and the DX VPC Route the network traffic to the on-premises servers

<mark>D. Configure AWS Transit Gateway between the accounts Assign DX to the transit gateway and route network traffic to the on-premises servers</mark>

答案：D

309. 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"

<mark>A. Use AWS Config rules to define and detect resources that are not property tagged</mark>

B. Use Cost Explorer to display resources that are not properly tagged Tag those resources manually

C. Write API calls to check all resources for proper tag allocation
Periodically run the code on an EC2 instance

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

答案：A

310. An application running on an Amazon EC2 instance needs to access an Amazon DynamoDB table.
Both the EC2 instance and the DynamoDB table are in the same AWS account.
A solutions architect must configure the necessary permissions.
Which solution will allow least privilege access to the DynamoDB table from the EC2 instance?

<mark>A. Create an IAM role with the appropriate policy to allow access to the DynamoDB table. Create an instance profile to assign this lAM role to the EC2 instance</mark>

B. Create an IAM role with the appropriate policy to allow access to the DynamoDB table Add the EC2 instance to the trust relationship policy document to allow it to assume the role

C. Create an lAM user with the appropriate policy to allow access to the DynamoDB table
Store the credentials in an Amazon S3 bucket and read them from within the application code directly

D. Create an IAM user with the appropriate policy to allow access to the DynamoDB table Ensure that the application stores the lAM credentials securely on local storage and uses them to make the DynamoDB calls

答案：A

311. An application uses an Amazon RDS MySQL DB instance
The RDS database is becoming low on disk space
A solutions architect wants to increase the disk space without downtime
Which solution meets these requirements with the least amount of effort?

<mark>A. Enable storage auto scaling in RDS</mark>
B. Increase the RDS database instance size
C. Change the RDS database instance storage type to Provisioned IOPS
D. Back up the RDS database, increase the storage capacity, restore the database and stop the previous instance

答案：A

312. A company uses an Amazon S3 bucket to store static images for its website. The company configured permissions to allow access to Amazon S3 objects by privileged users only.
What should a solutions architect do to protect against data loss? （ Choose two ）

<mark>A. Enable versioning on the S3 bucket</mark>
B. Enable access logging on the S3 bucket
C. Enable server-side encryption on the S3 bucket
D. Configure an S3 lifecycle rule to transition objects to Amazon s3 Glacier.
<mark>E. Use MFA Delete to require multi-factor authentication to delete an object</mark>

答案：AE

313. A company has an application that runs on Amazon EC2 instances within a private subnet in a VPC.
The instances access data in an Amazon S3 bucket in the same AWS Region
The VPC contains a NAT gateway in a public subnet to access the S3 bucket.
The company wants to reduce costs by replacing the NAT gateway without compromising security or redundancy

Which solution meets these requirements?

A. Replace the NAT gateway with a NAT instance

B. Replace the NAT gateway with an internet gateway

C. Replace the NAT gateway with a gateway VPC endpoint

D. Replace the Nat gateway with an AWS Direct Connect connection

答案：C

314. A company is designing a message-driven order processing application on AWS

The application consists of many services and needs to communicate the results of its processing to multiple consuming services

Each of the consuming services may take up to 5 days to receive the messages

Which process will meet these requirements?

A. The application sends the results of its processing to an Amazon Simple Notification Service

（Amazon SNS）topic

Each consuming service subscribes to this SNS topic and consumes the results

B. The application sends the results of its processing to an Amazon Simple Notification Service

（Amazon SNS）topic

Each consuming service consumes the messages directly from its corresponding SNS topic

C. The application sends the results of its processing to an Amazon Simple Queue Service（Amazon SQS）queue

Each consuming service runs as an AWS Lambda function that consumes this single SQS queue.

D. The application sends the results of its processing to an Amazon Simple Notification Service

（Amazon SNS）topic

An Amazon Simple Queue Service（Amazon SQS）queue is created for each service and each queue is configured to be a subscriber of the SNS topic

答案：D

315. A company stores call recordings on a monthly basis Statistically, the recorded data may be referenced randomly within a year but accessed rarely after 1 year

Files that are newer than 1 year old must be queried and retrieved as quickly as possible.

A delay in retrieving older files is acceptable A solutions architect needs to store the recorded data at a minimal cost Which solution is most cost-effective?

A. Store individual files in Amazon S3 Glacier and store search metadata in object tags created in S3 Glacier.

Query S3 Glacier tags and retrieve the files from S3 Glacier

B. Store individual files in Amazon S3 Use lifecycle policies to move the files to Amazon S3 Glacier after 1 year.

Query and retrieve the files from Amazon S3 or S3 Glacier

C. Archive individual files and store search metadata for each archive in Amazon S3

Use lifecycle policies to move the files to Amazon S3 Glacier after 1 year.

Query and retrieve the files by searching for metadata from Amazon S3

D. Archive individual files in Amazon S3

Use lifecycle policies to move the files to Amazon S3 Glacier after 1 year.

Store search metadata in Amazon DynamoDB Query the files from DynamoDB and retrieve them from Amazon S3 or S3 Glacier

答案：B

316. 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-efective solution that meets the requirements of the job.

A. Implement EC2 Spot Instances

B. Purchase EC2 Reserved Instances

C. Implement EC2 On-Demand Instances

D. Implement the processing on AWS Lambda

答案：A

317. A company has an application hosted on Amazon EC2 instances in two VPCs across different AWS Regions

To communicate with each other, the instances use the internet for connectivity

The security team wants to ensure that no communication between the instances happens over the internet

What should a solutions architect do to accomplish this

A. Create a ANT gateway and update the route table of the EC2 instances' subnet

B. Create a VPC endpoint and update the route table of the EC2 instances' subnet

C. Create a VPN connection and update the route table of the EC2 instances' subnet

D. Create a VPC peering connection and update the route table of the EC2 instances' subnet

答案：D

318. 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 InstaKes to handle additional capacity

D. Use Reserved instances for the baseline capacity and use On-Demand Instances to handle additional capacity

答案：D

319. A company with facilities in North America. Europe, and Asia is designing new distributed application to optimize its global supply chain and manufacturing process.

The orders booked on one continent should be visible to all Regions in a second or less. The database should be able to support failover with a short Recovery Time Objective (RTO)

The uptime of the application is important to ensure that manufacturing is not impacted.

What should a solutions architect recommend?

A. Use Amazon DynamoDB global tables

B. Use Amazon aurora Global Database

C. Use Amazon RDS for My SQL with a cross-Region read replica

D. Use Amazon RDS for PostgreSQL with a cross-Region read replica

答案：B

320. A company has several Amazon EC2 instances set up in a private subnet for security reasons These instances host applications that read and write large amounts of data to and from Amazon S3 regularly.

Currently, subnet routing directs all the traffic destined for the internet through a NAT gateway The company wants to optimize the overall cost without impacting the ability of the application to communicate with Amazon S3 or the outside internet

What should a solutions architect do to optimize costs?

A. Create an additional NAT gateway Update the route table to route to the NAT gateway Update the network ACL to allow S3 traffic

B. Create an internet gateway Update the route table to route traffic to the internet gateway Update the network ACL to allow S3 traffic

C. Create a VPC endpoint for Amazon S3 Attach an endpoint policy to the endpoint Update the route table to direct traffic to the VPC endpoint

D. Create an AWS Lambda function outside of the VPC to handle S3 requests

Attach an IAM policy to the EC2 instances, allowing them to invoke the Lambda function.

答案：C

321. A company hosts a training site on a feet of Amazon EC2 instances.

The company anticipates that its new course, which consists of dozens of training videos on the site, will be extremely popular when it is released in 1 week.

What should a solutions architect do to minimize the anticipated server load?

A. Store the videos in Amazon ElastiCache for Redis.Update the web servers to serve the videos using the Elastic ache API

B. Store the videos in Amazon Elastic File System (Amazon EFS).Create a user data script for the web servers to mount the EFS volume.

C. Store the videos in an Amazon S3 bucket.Create an Amazon CloudFlight distribution with an origin access identity (OA) of that S3 bucket Restrict Amazon S3 access to the OAI.

D. Store the videos in an Amazon S3 bucketCreate an AWS Storage Gateway file gateway to access the S3 bucket. Create a user data script for the web servers to mount the file gateway

答案：C

322. A media company stores video content in an Amazon Elastic Block Store（Amazon EBS）volume. A certain video file has become popular and a large number of users across the world are accessing this content.

This has resulted in a cost increase Which action will DECREASE cost without compromising user accessibility？

A. Change the EBS volume to Provisioned IOPS（PIOPS）

B. Store the video in an amazon S3 bucket and create an amazon CloudFront distribution

C. Split the video into multiple, smaller segments so users are routed to the requested video segments only.

D. Create an Amazon S3 bucket in each Region and upload the videos so users are routed to the nearest S3 bucket

答案：B

323. A solutions architect is designing the cloud architecture for a new application being deployed to AWS. The application allows users to interactively download and upload files. Files older than 2 years will be accessed less frequently. The solutions architect needs to ensure that the application can scale to any number of files while maintaining high availability and durability

Which scalable solutions should the solutions architect recommend？（Choose TWO）

A. Store the files on Amazon S3 with a lifecycle policy that moves objects older than 2 years to S3 Glace

B. Store the files on Amazon S3 with a lifecycle policy that moves objects older than 2 years to S3 Standard-Infrequent Access （S3 Standard-IA）

C. Store the files on Amazon Elastic File System（Amazon EFS）with a lifecycle policy that moves objects older than 2 years to EFS Infrequent Access（EFS IA）

D. Store the files in Amazon Elastic Block Store（Amazon EBS） volumes. Schedule snapshots of the volumes. Use the snapshots to archive data older than 2 years

E. Store the files in RAID-striped Amazon Elastic Block Store（Amazon EBS）volumes. Schedule snapshots of the volumes. Use the snapshots to archive data older than 2 years

答案：BC

324. A company is hosting multiple websites for several lines of business under its registered pare domain. Users accessing these websites will be routed to appropriate backend Amazon EC instances based on the subdomain. The websites host static webpages, images, and server-side scripts like PHP and JavaScript

Some of the websites experience peak access during the first two hours of business with constant usage throughout the rest of the day. A solutions architect needs to design a solution

that will automatically adjust capacity to these traffic patterns while keeping costs low.

Which combination of AWS services or features will meet these requirements？（Choose two）

A. AWS Batch

B. Network Load Balancer

C. Application Load Balancer

D. Amazon EC2 Auto Scaling

E. Amazon S3 website hosting

答案：DE

325. A solutions architect is creating an application that will handle batch processing of large amounts of data. The input data will be held in Amazon S3 and the output data will be stored in a different S3 bucket. For processing, the application will transfer the data over the network between multiple Amazon EC2 instances

What should the solutions architect do to reduce the overall data transfer costs？

A. Place all the EC2 instances in an Auto Scaling group

B. Place all the EC2 instances in the same AWS Region

C. Place all the EC2 instances in the same Availability Zone

D. Place all the EC2 instances in private subnets in multiple Availability Zones

答案：B

326. A company is hosting an election reporting website on AWS for users around the world. The website uses Amazon EC2 instances for the web and application tiers in an Auto Scaling group with Application Load Balancers. The database tier uses an Amazon RDS for MySQL database. The website is updated with election results once an hour and has historically observed hundreds of users accessing the reports.

The company is expecting a significant increase in demand because of upcoming elections in different countries. A solutions architect must improve the website's ability to handle additional demand while minimizing the need for additional EC2 instances.

Which solution will meet these requirements?

A. Launch an Amazon ElastiCache cluster to cache common database queries

B. Launch an Amazon CloudFront web distribution to cache commonly requested website content

C. Enable disk-based caching on the EC2 instances to cache commonly requested website content.

D. Deploy a reverse proxy into the design using an EC2 instance with caching enabled for commonly requested website content.

答案：B

327. A company is running a three-tier web application to process credit card payments. The front-end user interface consists of static webpages. The application tier can have long-running processes. The database tier uses MySQL

The application is currently running on a single, general purpose large Amazon EC2 instance. A solutions architect needs to decouple the services to make the web application highly available Which solution would provide the HIGHEST availability?

A. Move static assets to Amazon CloudFront Leave the application in EC2 in an Auto Scaling group   Move the database to Amazon RDS to deploy multi-AZ

B. Move static assets and the application into a medium EC2 instance   Leave the database on the large instance   Place both instances in an Auto Scaling group

C. Move static assets to Amazon S3,   Move the application to AWS Lambda with the concurrency limit set   Move the database to Amazon DynamoDB with on-demand enabled

D. Move static assets to Amazon S3 Move the application to Amazon Elastic Container Service （Amazon ECS） containers with Auto Scaling enabled   Move the database to Amazon RDS to deploy Multi-AZ

答案：D

328. A company operates an ecommerce website on Amazon EC2 instances behind an Application Load Balancer （ALB） in an Auto Scaling group. The site is experiencing performance issues related to a high request rate from illegitimate external systems with changing IP addresses. The security team is worried about potential DDoS attacks against the website. The company must block the illegitimate incoming requests in a way that has a minimal impact on legitimate users.

What should a solutions architect recommend?

A. Deploy Amazon Inspector and associate it with the ALB

B. Deploy AWS WAF, associate it with the ALB, and configure a rate-limiting rule

C. Deploy rules to the network ACLs associated with the ALB to block the incoming traffic.

D. Deploy Amazon Guard Duty and enable rate-limiting protection when configuring GuardDuty

答案：B

329. A company built a new VPC with the intention of the hosting Amazon EC2 based workloads on AWS. A solutions architect specified that an Amazon S3 gateway endpoint be created and attached to this new VPC. Once the first Application server is built, developers report that server time out when accessing data stored in the S3 bucket

Which scenario could be causing this issue? （Select TWO）

A. The S3 bucket is in a region other than the VPC

B. The endpoint has a policy that blocks the CIDR of the VPC

C. The route to the S3 endpoint is not configured in the route table

D. The access is routed through an internet gateway rather than the endpoint

E. The S3 bucket has a bucket policy that does not allow access to the CIDR of the VPC

答案：CE

330. A solution architect is designing a shared storage solution for an Auto Scaling web application.
The company anticipates making frequent changes to the content, so the solution must have strong consistency.
Which solution requires the LEAST amount of effort?

A. Create an Amazon S3 bucket to store the web content and use amazon CloudFront to deliver the content

B. Create an Amazon Elastic File system （ Amazon EFS ） file system and mount it on the individual Amazon EC2 instance

C. Create a shared Amazon Elastic Block store（Amazon EBS） volume and mount it on the individual Amazon EC2 instance

D. Use AWS Datasync to perform continuous synchronization of data between Amazon EC2 hosts in the Auto scaling group

答案：B

331. A solution architect creating an application that will handle batch processing of large amount of data. The input data will be held in Amazon S3 and the output data will be stored in a different S3 bucket. For processing the application will transfer the data over the network between multiple Amazon EC2 instances.

What should the solution architect do to reduce the overall data transfer costs?

A. Place all the EC2 instances in an Auto scaling group

B. Place all the EC2 instance in the same AWS Region

C. Place all the EC2 instance in the same Availability Zone

D. Place all the EC2 instances in private subnets in multiple Availability zones

答案：B

332. A company previously migrated its data warehouse solution to AWS. The company also has an AWS Direct Connect connection Corparate office user query the data warehouse using a visulization tool. The average size of a query returned by the data warehouse is 50 MB and each webpage sent by the visualization tool is approximately 500 KB Result sets returned by the data warehouse are not cached

Which solution provides the LOWEST data transfer egress cost for the company？

A. Host the visualization tool on-premises and query the data warehouse directly over the internet

B. Host the visualization tool in the same AWS Region as the data warehouse. Access it over the internet

C. Host the visualization tool on-premises and query the data warehouse directly over a Direct Connect connection at a location in the same AWS Region

D. Host the visualization tool in the same AWS Region as the data warehouse access it over a Direct Connect connection at a location in the same AWS Region

答案：D

333. A company provides an API to its users that automates inquiries for tax computations based on item prices. The company experiences a larger number of inquires during the holiday season only that cause slower response times. A solution architect needs to design a solution that is scalable and elastic

What should the solutions architect do to accomplish this？

A. Provide an API hosted on an amazon EC2 instance

The EC2 instance performs the required computations when the API request is made

B. Design a REST API using Amazon API Gateway that accepts the item names, API Gateway passes item names to AWS Lambada for tax computations

C. Create ans application load balancer that has two Amazon EC2 instances behind it.

The EC2 instances will compute the tax on the recieved item names

D. Design a REST API using Amazon API Gateway that connects with an API hosted on an Amazon EC2 instance, API Gateway accepts and passes the item names to the EC2 instance for tax computations

答案：B

334. Management has decided to deploy all AWs VPCs with IPv6 enabled. After sometime, a solutions architect tries to launch a new instance and receives an error stating that there is no enough IP address space available in the subnet. What should the solutions architect do to fix this？

A. Check to make sure that only IPv6 was used during the VPC creation

B. Create a new IPv4 subnet with a larger range, and then launch the instance

C. Create a new IPv6-only subnet with a larger range, and then launch the instance

D. Disable the IPv4 subnet and migrate all instances to IPv6 only. Once that is complete, launch the instance

答案：B

335. A company is developing a new machine learning model solution in AWS. The models are developed as independent microservices that fetch about 1 GB of model data from Amazon S3 at startup and load the data into memory. users access the models through an asychronous API. Users can send a request or a batch of requests and specify where the result should be sent. The comapny provides models to hundreds of users. The usage patterns for the

models are irregular somes models could be unused for days or weeks other models could receive batches of thousands of requests at a time

Which solution meets these requirements?

A. The requests from the API are sent to an Application Load Balancer （ALB）. Models are deployed as AWS lambda functions invoked by the ALB

B. The requests from the API are sent to the models Amazon Simple Queue service （Amazon SOS）queue

Models are deployed as AWS Lambda functions trigeered by SOS events.

AWS auto scaling is enabled on Lambda to increse the number vCPUSs based on the SQS queue size

C. The requests from the API are sent to the model's Amazon simple Queue service （Amazon SQS） queue.

Model are deployed as Amazon Elastic container service （Amazon ECS） service reading from the queue.

AWS App Mesh scales the instances of the ECS cluster based on the SQS queue size

D. The requests from the API are sent to the model's Amazon simple Queue service（Amazon SQS）queue. Models are deployed as Amazon Elastics container service（Amazon ECS）services reading from the queue AWS Auto Scaling is enabled ECS for both the cluster and copies the service based on the queue size

答案：D

336. A company has a mobile game that reads most of its metadata from an Amazon RDS DB instances. As the game increased in popularity, developer noticed slowdowns related to the game's metadata load times. Performance metrics Indicate that simply scaling the database will not help. A solutions architect must explore all options that include capabilities for snapshots replication, and sub-millisecond response times

What should the solutions architect recommend to solve the issues ?

A. Migrate the database to Amazon Aurora with Aurora Replicas

B. Migrate the database to Amazon DynamoDB with global tables

C. Add an Amazon ElastiCache for Redis layer in front of the database

D. Add an Amazon ElastiCache for Memcached layer in front of the database

答案：C

337. A company runs and application that uses multiple Amazon EC2 instances to gather data from its users. The data is then processed and transferred to Amazon S3 for long-term storage. A review of the application shows that there were long periods of time when the EC2 instances were not being used. A solution architect needs to design a solution that optimizes utilization and reduces costs

Which solution meets these requirements?

A. Use Amazon EC2 in an Auto Scaling group with On-Demand instances

B. Build the application to use Amazon Lightsail with On-Demand instances

C. Create an Amazon CloudWatch cros job to automatically stop the EC2 instance when there is no activity.

D. Redesign the application to use an event-driven design with Amazon Simple Queue Service （Amazon SQS） and AWS Lambda

答案：D

338. A solutions architect is designing a VPC with public and private subnets. The VPC and subnets use IP 4 CIDR blocks. There is one public subnet and one private subnet in each of three Availability Zone （AZs） for high availability. An internet gateway is used to provide internet access for the public subnets. The private subnets require access to the internet to allow Amazon EC2 instances to download software updates.

What should the solutions architect do to enable intrnet access for the private subnets?

A. Create three NAT gateways, one for each public subnet in each AZ.

Create a private route table for each AZ that forwards non -VPC traffic to the NAT gateway in its AZ

B. Create three NAT gateways, one for each private subnet in each AZ.

Create a private route table for each AZ that forwards non -VPC traffic to the NAT gateway in its AZ

C. Create second internet gateway on one of the private subnets

Update the rout table for the private subnets that forward non- VPC traffic to the private internt gateway.

D. Create an egress-only internet gateway on one of the public subnets.

Update the route table for the private subnets that forward non-VPC traffic to the egress-only internet gateway

答案：A

339. A solutions architect needs to design a network that will allow multiple Amazon EC2 instances to access a common data source used for mission-critical data that can be accessed by all the EC2 instances simultaneously. The solution must be highly scalable, easy to implement, and support the NFS protocol.

Which solution meets these requirements?

A. Create an Amazon EFS file system
Configure a mount target in each Availability Zone
Attach each instance to the appropriate mount target

B. Create and additional EC2 instance and configure it as a file server.
Create security group that allows communication between the instances and apply that to the addiotional instance

C. Create an Amazon S3 bucket with the appropriate permissions
Create a role in AWS IAM that grants the correct permissions to the S3 bucket
Attach the role to the EC2 instances that need access to the data

D. Create an Amazon EBS volume with the appropriate permissions
Crate a role in AWS IAM that grants the correct permissions to the EBS volume.
Attach the role to then EC2 instances that need access to the data

答案：A

340. A company has a multi-tier application deployed on several Amazon EC2 instance in an Auto Scaling group. An Amazon RDS for Oracle instance is the application s data layer that uses Oracle-specific PUISQL functions Traffic to the application has been steadily increasing. This is causing the EC2 instances to become overloaded and the RDS instance to run out of storage. The Auto Scaling group does not have any scaling metrics and defines the minimum healthy instance count only. The company predicts that traffic will continue to increase at a steady but unpredictable rate before leveling off.

What should a solution architect do to ensure the system can automatically scale for the increased traffic?（Select TWO）

A. Configure storage auto scaling on the RDS for Oracle instance

B. Migrate the database to amazon aurora to use Auto scaling storage

C. Configure an alarm on the RDS for Oracle instance for low free storage space

D. Configure the Auto Scaling group to use the average CPU as the scaling metric

E. Configure the Auto Scaling group to use the average free memory as the scaling metric

答案：AD

341. 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 Guard duty 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 Advancd and assign the ELB to it

答案：D

342. A company has a 10 Gbps AWS Direct Connect connection from its on-premises servers to AWS. The workloads using the connection are critical. The company requires a disastr recovery strategy with maximum resiliency that maintains the current connection bandwidth at a minimum.

What should a solutions architect recommend?

A. Set up a new Direct Connect connection in another AWS Region

B. Set up a new AWS managed VPN connection in another AWS Region

C. Set up two new Direct Connect connections one in the currnt AWS Region and one in another Region

D. Set up two new AWS managed VPN connctions one in the current AWS Region and one in another Region

答案：A

343. A company stores user data in AWS. The data is used continuously with peak usage during business hours. Access patterns vary, with some data not being used for months at a time. A solutions architect must choose a cost-effective solution that maintains the highest level of durability while maintaining high availability.

Which storage solution meets these requirements?

A. Amazon S3
B. Amazon S3 Intelligent-Tiering
C. Amazon S3 Glacier Deep Archive
D. Amazon S3 One Zone-Infequent Access（S3 One Zone-IA）
答案：B

344. A company has no existing file share services. A new project requires access to file storage that is mountable as a drive for on-premises desktops. the file server must authenticate usrs to an Activ Directory domain before they are able to access the storage.
Which service will allow Active Directory users to mount storage as a drive on their desktops？
A. AWS S3 Glacier
B. AWS DataSync
C. AWS Snowball Edge
D. AWS Storage Gateway
答案：B

345. A company is planning to migrate a legacy application to AWS. Th he application currently uses NFS to communicate to an on-premises storage solution to store application data. The application cannot be modified to use any other communication protocols other than NFS for this purpose.
Which storage solution should a solutions architect recommend for use after the migrations？
A. AWS DataSync
B. Amazon Elastic Block Store（Amazon EBS）
C. Amazon Elastic File System（Amazon EFS）
D. Amazon EMR File System（Amazon EMRFS）
答案：A

346. A company has a dynamic web application hostes on two Amazon EC2 instances. The company has its own SSL certificate, which is on each instance to perform SSL termination There has been an increase in traffic recently, and the operations team determined that SSL encryption and decryption is causing the compute capacity of the web servers to reach their maximum limit
What should a solutions architect do to increase the application's performance？
A. Create a new SSL certificate using AWS Certificate Manager（ACM）
Install the ACM certificate on each instance
B. Create an Amazon S3 bucket Migrate the SSL certificate to the S3 bucket
Configure the EC2 instances to reference the bucket for SSL termination
C. Create another EC2 instance as a proxy server.
Migrate the SSL certificate to the new instance and configure it to direct connctions to the existing EC2 instances
D. Import the SSL certificate into AWS Crtificate Manager（ACM ）
Create an Application Load Balancer with an HTTPS listener that uses the Ssl certificate from ACM
答案：D

347. A solutions architect is designing a security solution for a company that wants to provider developers with individual AWS accounts through AWS Organizations, while also maintaining standard security controls. Because the individual developers will have AWs account root user- level access to their own account, the solutions architect wants to ensure that the mandatory AWS CloudTrail configuration that is applied to new developer accounts is not modified Which action meets these requirements？
A. Create an IAM policy that prohibits changes to CloudTrail, and attach it to the root user.
B. Create a new trail in CloudTrail from within the developer accounts with the organization trails options enabled
C. Create a service control policy（SCP）the prohibits changes to CloudTrail, and attach it to the developer accounts
D. Create a service-linked role for Cloud rail with a policy condition that allows changes only from an Amazon Resource Name（ARN）in the master account
答案：C

348. A company is preparing to migrate its on-premiss application to AWS. The application consists of application servers and a Microsoft SQL Server database. The database cannot be migrated to a different engine because SQL Server

features are used in the applications NET code. The company wants to attain the greatest availability possible while minimizing operational and management overhead.

What should a solutions architect do to accomplish this?

A. Install SQL Server on Amazon C2 in a Multi-AZ deployment

B. Migrate teh data to Amazon RDs for SQL Server in a Multi-AZ deployment

C. Deploy the database on amazon RDS for SQL Server with multi-AZ Replicas

D. Migrate the data to Amazon RDs for SQL Server in a cross-Region Multi-AZ deployment

答案：B

349. A company is using Site-Site VPN connection for secure connectivity to its AWS cloud resource from on premises. Due to an increase in traffic across the VPN connections to the Amazon EC2 instances, users are experiencing slower VPN connectivity?

Which solution will improve the VPN throughput？

A. Implement multiple customer gateways for the same network to scale the throughput

B. Use a Transit Gateway with equal cost multipath routing and add additional VPN tunnels

C. Configure a virtual gateway with equal cost multipath routing and multiple cahnnels

D. Increase the number of tunnels in the VPN configuration to scale the throughput beyond the default limit

答案：A

350. A mobile gaming company runs apllication servers on Amazon EC2 instances. The servers reciev updates from players every 15 minutes. The mobile game creates a JSON object of the progress made in the game since the last update, and sends the JSON object an Application Load Balacer. As the mobile game is played, game updates are being lost. The company wants to create a durable way to get the updates in order.

What should a solution architect recommend to decouple the system？

A. Use Amazon Kinesis Data streams to capture the data and store the JSON object in Amazon S3

B. Use Amazon Kinesis Data Firehouse to capture the data and store the JSON object in Amazon S3

C. Use Amazon simple Queue service（Amazon SQS）FIFO queue to captur the data and EC2 instances to process the messages in the queue

D. Use Amazon simple Notification Service（Amazon SNS）to capture the data and EC2 instances to process the messages sent to Application Load balancer.

答案：C

351. A recently created startup built a three-tier web application. The front end has staic content. The application layer is based on microservices. User data is stored as Json documents that needs to be access with low latency. The company expects regular traffic to be low during the first year, with peaks in traffic when it publicizes new features every month. The startup team needs to minimize operational overhead costs.

What should a solutions architect recommend to accomplish this?

A. Use Amazon S3 static website hosting to store and serve the front end
Use AWS Elastic Benstalk for the applications layer
Use Amazon DynamoDB to store user data

B. Use Amazon S3 static website hosting to store and serve the front end
Use Amazon Elastic Kubernets Service（Amazon EKS）for application layer.
Use Amazon Dynamo DB to store user data

C. Use Amazon S3 static website hosting to store and serve the front end.
Use Amazon API Gateway and Lambda functions for application layer.
Use Amazon DynamoDB to store user data

D. Use Amazon S3 static website hosting to store and serve the front end.
Use Amazon API Gateway and Lambda functions for application layer.
Use Amazon RDS with read replica to store user data

答案：C

352. A company needs comply with a regulatory requirement that states all emails must be stored and archieved externally for 7 years. An administrator has created compressed email files on-premises and wants a managed service to transfer the files to AWS storage.

Which managed service should a solution architect recommend?

A. Amazon Elastic File System（Amazon EFS）

B. Amazon S3 Glacier

C. AWS Backup

D. AWS Storage Gateway

答案：D

353. A company's near-real-time streaming application is running on AWS. As the data is ingested, a job runs on the data and tales 30 minutes to complete. The workload frequently experiences high latency due to large amount of incoming data. A solutions architect needs to design a scalable and serverless solution to enhance performance.
Which combination of steps should the solutions architect take？ (Select Two)

A. Use Amazon Kinesis data Firehose to ingest the data

B. Use AWS Lambda with AWS Step Fucntions to process the data

C. Use AWS Database Migration Service（AWS DMS）to ingest the data

D. Use Amazon EC2 instances in an Auto Scaling group to process the data

E. Use AWS Fargate with Amazon Elastic Container Service（Amazon ECS）to process the data

答案：AB

354. A company company is planning to transfer multiple terabytes of data to AWS. The data is collected offline from ships. The company wants to run complex transformations before transferring the data.
Which AWS service should a solutions architect recommend for this migrations?

A. AWS Snowball

B. AWS Snowmobile

C. AWS Snowball Edge Storage Optimized

D. AWS Snowball Edge Compute Optimized

答案：D

355. 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 over 10 million rows. the database has 2TB of General Purpose SSD（gp2） storage. There are millions of updates against this data every day through the company's website. The company has noticed some operations are taking 10 seconds or longer, and has determined that the database storage performance is bottleneck
Which solution addresses the performance issues?

A. Change the storage type to Provisioned IOPS SSD（io1）

B. Change the instance to a memory-optimized instance class

C. Change the instance to a burstable performance DB instance class

D. Enable Multi-AZ RDS read replicas with My SQL natice asynchronous replication

答案：A

356. A company has a hybrid application hosted on multiple on-premises servers with static IP addresses. There is already a VPN that provides connectivity between the VPN and the on-premises network. The company wants to distribute TCP traffic across the on-premises servers for internet users
What should a solution architect recommend to provides a highly available and scalable solution？

A. Launch an internet-facing Network Load Balancer（NLB）and register on-premises IP addresses with the NLB

B. Launch an internet-facing Application Load Balancer（ALB）and register on-premises IP addresses with the ALB

C. Launch an Amazon EC2 instance, attach an Elastic IP address, and distribute traffic to the on premises servers

D. Launch and Amazon EC2 instance woth public IP addresses in an Auto Scaling group distribute traffic to the on-premises servers

答案：A

357. A company has na application that generates a large number of files, each approximately 5 MB in size. The files are stored in Amazon S3. Company policy requires teh files to be stored for 4 years before they can be deleted. Immediate accessibility is always required as teh files contain critical business data that is not easy to reproduce. The files are frequently accessed in the first 30 days of the object creation but are rarely accessed after the first 30 days
Which storage solution is most cost effective?

A. Create an S3 bucket lifecycle policy to move files from S3 Standard to S3 Glacier 30 days from object creation Delete the files 4 years after the object creation

B. Create an S3 bucket lifecycle policy to move files from S3 Standard to S3 One Zone-lnfrequent Access（S3 One Zone-IA）
30 days from object creation
Delete the files 4 years after the object creation

C. Create an S3 bucket lifecycle policy to move files from S3 Standard to S3 Standard-lnfrequent Access （S3 Standard-IA）
30 days from object creation
Delete the files 4 years after the object creation

D. Create an S3 bucket lifecycle policy to move files from S3 Standard to S3 Standard-lnfrequent Access（S3 Standard-IA）
30 days from object creation
Move the file to S3 Glacier 4 years after object creation

答案：C

358. An online shopping application accesses an Amazon RDS Multi-AZ DB instance Database performance is slowing down the application. After upgrading to the next generation instance type, there was no significant performance improvement.

Analysis shows approximately 700 IOPS are sustained, common queries run for long durations and memory utilization is high

Which application change should a solution architect recommend to resolve these issue？

A. Migrate the RDS instance to an Amazon Redshift cluster and enable weekly garbage collection

B. Spearate teh long-running queries into a new Multi-AZ RDS database and modify the application to query whichever database only if needed

C. Deploy a two-node amazon Elasticache cluster and modify the application to query whichever database only if needed

D. Create an Amazon Simple Queue Service（Amazon SQS） FIFO queue for common queries and query it first and query the database only if needed

答案：C

359. A company hosts its web application on AWS using server Amazon EC2 instances. The company requires that the IP addresses of all healthy EC2 instances be refumed 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.

答案：C

360. As part of budget planning, management wants a report of Aws billed items listed by user. The data will be used to create department budgets. a solutions architect needs to determine the most effective way to obtain this report information

Which solution meets these requirements？

A. Run a query with Amazon Athena to generate the report

B. Create a report in Cost Explorer and download the report

C. Access the bill details from the billing dashboard and download the bill

D. Modify a cost budget in AWs Budgets to alert with Amazon Simple Email Service（Amazon SES）

答案：B

361. 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 for auditing purposes. Key must be rotated every year.

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

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 automatic rotation

答案：D

362. A company has 700 TB of backup data stored in network attached storage（NAS）in its data center. This backup data need to be accessible for infrequent regulatory requests and must be retained 7 years. The company has decided to

migrate this backup data from its data center to AWS. The migrations must be complete within 1 month. The company has 500 Mbps of dedicated bandwidth on its public internet connection available for data transfer.

What should a solutions architect do to migrate and store the data at the LOWEST cost？

A. Order AWS Snowball devices to transfer the data
Use a lifecycle policy to transition the files to Amazon S3 Glacier Deep Archive

B. Deploy a VPN connection between the data center and Amazon VPC
Use the Aws cli to copy the data from on-premises to Amazon S3 Glacier

C. Provision a 500 Mbps AWS Direct Connect connection and transfer the data to Amazon S3
Use a lifecycle policy to transistion the files to Amazon S3 Glacier Deep Archive

D. Use AWS Data Sync to transfer the data and deploy a Data Sync agent on-premises
Use the Data Sync task to copy files from the on-premises NAS Storage to Amazon S3 Glacier.

答案：A

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363. 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 with Multi-AZ and the create a read replica in a separate AWS Region that synchronously replicates the data

D. Create and Amazon EC2 instance with a MySQL engine installed that triggers an AWS Lambda fucntion to synchronously replicate the data to an Amazon RDS MySQL DB instance

答案：B

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364. A application running on an Amazon EC2 instance needs to securely access files on an Amazon Elastic File System （Amazon EFS） file system. The EFS files are stores using encryptions at rest

Which solution for accessing teh files in MOST secure？

A. Enable TLS when mounting Amazon EFS.

B. Store the encryption key in the code of the application

C. Enable AWs Key MAnagement Service （AKS KMS） when mounting Amazon EFS

D. Store the encryption key in an Amazon S3 bucket and use IAM roles to grand the EC2 instance

答案：C

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365. An ecommerce website is deploying its web application as Amazon Elastic Container Service （Amazon ECS） container instance behind an Application Load Balancer （ALB）。 During periods of high activity, the website slows down and availability is reduced. A solutions architect uses Amazon CloudWatch alarms to receive notifications whenever there is an availability issues so they can scale out resource Company management wants a solution that automatically responds to such events

Which solution meets these requirements？

A. Set up AWS Auto Scaling to scale out the ECS service when there are timeouts on the ALB. Set up AWS Auto Scaling to scale out the ECS cluster when the CPU or memory reservation is too

B. Set up AWS Auto Scaling to scale out the ECS service when the ALB CPU utilization is too high Set up AWS Auto Scaling to scale out the ECS cluster when the CPU or memory reservation is too high

C. Set up AWS Auto Scaling to scale out the ECS service when the service's CPU utilization is too high. Set up AWS Auto Scaling to scale out the ECS cluster when the CPU or memory reservation is too high

D. Set up AWS Auto Scaling to scale out the ECS service when the ALB target group CPU utilization is too high. Set up AWS Auto Scaling to scale out the ECS cluster when the CPU or memory reservation is toc high

答案：D

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366. A company is reviewing a recent migration of a three-tier application to a VPC. the security team discovers that the principle of least privilege is not being applied to Amazon EC2 security group ingress and egress rules between the application tiers.

What should a solutions architect do to correct this issue？

A. Create security group rules using the instance ID as the source or destination

B. Create security group rules using the security group ID as the source or destination

C. Create security group rules using the VPC CIDR block as the source or destination

D. Create security group rules using the subnet CIDR block as the source or destination

答案：B

367.**Users submit requests to a service that takes several minutes to process**. A solutions architect needs to ensure that these requests are processed at least once, and that the service has the ability to handle large increases in the number of requests

How should these requirements be met?

A. Put the requests into an Amazon SQS queue and configure Amazon EC2 instances to poll the queue

B. Publish the message to an Amazon SNS topic that an Amazon EC2 subscriber can receive and process

C. Save the request to an Amazon DynamoDB table with a DynamoDB stream that triggers an Amazon EC2 Spot Instance

D. Use Amazon S3 to store the requests and configure an event notification to have Amazon EC2 instances.

用户向一个服务提交请求，需要几分钟的时间以处理这些请求。解决方案架构师需要确保至少处理一次这些请求，并且该服务能够处理数量显著增加的请求

如何满足这些要求?

A.将请求放入 Amazon SQS 队列中，并配置 Amazon EC2 实例以轮询队列

B.将消息发布到 Amazon EC2 订阅者可接收和处理的 Amazon SNS 主题

C.将请求保存到一个 Amazon DynamoDB 表中，并使用 DynamoDB 流触发 Amazon EC2 Spot 实例

D.使用 Amazon S3 存储请求，并配置事件通知以使 Amazon EC2 实例处理新对象

答案：B

368.A solutions architect is creating a multi-tiered architecture for an application that includes a public-facing web tier. Security requirements state that the Amazon EC2 instances running in the application tier must not be accessible directly from the internet

What should be done to accomplish this?

A. Create a multi-VPC peering mesh with network access rules limiting communications to specific ports Implement an internet gateway on each VPC for external connectivity

B. Place all instances in a single Amazon VPC with AWS WAF as the web front-end communication conduit Configure a NAT gateway for external communications

C. Use VPC peering to peer with on-premises hardware。
Direct enterprise traffic through the vpc peer connection to the instances hosted in the private VPC

解决方案架构师正在为一个应用程序创建多层架构，其中包括面向公众的 Web 层。安全要求规定，不能直接从 Internet 访问在应用程序层中运行 Amazon EC2 实例

应采取哪些措施以实现该目标?

A.创建一个多 VPC 对等网络，并设置网络访问规则以限制到特定端口的通信。在每个 VPC 上实施 Internet 网关以建立外部链接

B.将所有实例放在单个 Amazon VPC 中，并将 AUS WAF 作为 Web 前端通信管道。配置 NAT 网关以进行外部通信

C．使用 VPC 对等功能与本地硬件建立对等连接。通过 VPC 对等连接将企业流量传送到在私有 VPC 中托管的实例

D．在私有子网中部署 Web 和应用程序实例，在公有子网中预置应用程序负载均衡器，安装 Internet 网关，并使用安全组控制层之间的通信。

答案：A

369. A web application has an increase in traffic during certain times of the day, and a solutions architect notices that CPU usage u high during those periods. Sometimes the CPU usage reaches 100%， which results in poor application performance

How should the solutions architect ensure that adequate compute resources are provisioned at all times?

A. Launch Spot Instances when CPU exceeds a given threshold

B. Use Elastic Load Balancing to balance the load during high-traffic periods

C. Use Amazon EC2 Auto Scaling to launch instances when CPU exceeds a given threshold

D. Purchase Reserved Instances to ensure capacity

一个 Web 应用程序的流量在一天中的某些时段增加，解决方素架构师注意到这时段的 CPU 使用率较高，有时，CPU 使用率达到 100% 这会导致应用程序性能下降。

解决方案架构师应如何确保始终预置足够的计算资源?

A.在 CPU 超过给定阈值时启动 spot 实例

B.使用 Elastic Load Ba1ancing 在高流量时段均衡负载

C.在 CPU 超过给定阈值时，使用 Amazon EC2 Auto sca1ing 启动实例。
D. 购买预留实例以确保具有足够的容量
答案：A

370. A disaster response team is using drones to collect images of recent storm damage. The response team's laptops lack the storage and compute capacity to transfer the images and process the data. While the team has Amazon EC2 instances for processing and Amazon S3 buckets for storage, network connectivity is intermittent and unreliable. The images need to be processed to evaluate the damage.
What should a solutions architect recommend？
A. Use AWS Snowball Edge devices to process and store the images
B. Upload the images to Amazon Simple Queue Service（Amazon SQS）during intermittent connectivity to EC2 instances.
C. Configure Amazon Kinesis Data Firehose to create multiple delivery streams aimed separately at the S3 buckets for storage and the EC2 instances for processing the images
D. Use AWS Storage Gateway pre-Installed on a hardware appliance to cache the images locally for Amazon S3 to process the images when connectivity becomes available
答案：D

371. A company has hired a new cloud engineer who should not have access to an Amazon S3 bucket named Company Confidential. The cloud engineer must be able to read from and write to an S3 bucket called AdminTools
Which IAM policy will meet these requirements？

A.

```
{
    "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.

```
{
    "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"
        }
    ]
}
```

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C.

```
{
    "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

```
{
    "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/*"
            ]
        }
    ]
}
```

答案：A

372. A company is experiencing growth as demand for its product has increased. The company's existing purchasing application is slow when traffic spikes. The application is a monolithic three-tier application that uses synchronous transactions and sometimes sees bottlenecks in the application tier. A solutions architect needs to design a solution that can meet required application response times while accounting for traffic volume spikes
Which solution will meet these requirements?
A. Vertically scale the application instance using a larger Amazon EC2 instance size
B. Scale the application's persistence layer horizontally by introducing Oracle RAC on AWS.
C. Scale the web and application tiers horizontally using Auto scaling groups and an Application Load Balancer.
D. Decouple the application and data tiers using Amazon Simple Queue Service（Amazon SQS）with asynchronous AWS Lambda calls
答案：D

373. A monolithic application was recently migrated to AWS and is now running on a single Amazon EC2 instance. Due to application limitations, it is not possible to use automatic scaling to scale out the application. The chief technology officer（CTO）wants an automated solution to restore the EC2 instance in the unlikely event the underlying hardware fails.

What would allow for automatic recovery of the EC2 instance as quickly as possible？
A. Configure an Amazon CloudWatch alarm that triggers the recovery of the EC2 instance if it becomes impaired
B. Configure an Amazon CloudWatch alarm to trigger an SNS message that alerts the CTO when the EC2 instance is Impaired
C. Configure AWS CloudTrail to monitor the health of the EC2 instance, and if it becomes impaired, trigger instance recovery
D. Configure an Amazon EventBridge event to trigger an AWS Lambda function once an hour that checks the health of the EC2 instance and triggers instance recovery if the EC2 instance is unhealthy
答案：D

374. A company is deploying a web portal. The company wants to ensure that only the web portion of the application is publicly accessible. To accomplish this, the VPC was designed with two public subnets and two private subnets. The application will run on several Amazon EC2 instances in an Auto Scaling group. SSL termination must be offloaded from the EC2 instances.
What should a solutions architect do to ensure these requirements are met？
A. Configure the Network Load Balancer in the public subnets. Configure the Auto Scaling group in the private subnets and associate it with the Application Load Balancer.
B. Configure the Network Load Balancer in the public subnets. Configure the Auto Scaling group in the public subnets and associate it with the Application Load Balancer.
C. Configure the Application Load Balancer in the public subnets. Configure the Auto Scaling group in the private subnets and associate it with the Application Load Balancer
D. Configure the Application Load Balancer in the private subnets. Configure the Auto Scaling group in the private subnets and associate it with the Application Load Balancer
答案：D

375. A company has a website deployed on AWS. The database backend is hosted on Amazon RDS for MySQL with a primary instance and five read replicas to support scaling needs. The read replicas should lag no more than 1 second behind the primary instance to support the user experience
As traffic on the website continues to increase, the replicas are falling further behind during periods of peak load, resulting in complaints from users when searches yield inconsistent results. A solutions architect needs to reduce the replication lag as much as possible, with minimal changes to the application code or operational requirements
Which solution meets these requirements
A. Migrate the database to Amazon Aurora MySQL. Replace the MySQL read replicas with Aurora Replicas and enable Aurora Auto Scaling
B. Deploy an Amazon ElastiCache for Redis cluster in front of the database. Modify the website to check the cache before querying the database read endpoints
C. Migrate the database from Amazon RDS to MySQL running on Amazon EC2 compute instances. Choose very large compute optimized instances for all replica nodes
D. Migrate the database to Amazon DynamoDB Initially provision a large number of read capacity units（RCUS） to support the required throughput with on-demand capacity scaling enabled
答案：B

376. A company runs a static website through its on-premises data center. The company has multiple servers that handle all of its traffic, but on busy days, services are interrupted and the website becomes unavailable. The company wants to expand its presence globally and plans to triple its website traffic
What should a solutions architect recommend to meet these requirements？
A. Migrate the website content to Amazon S3 and host the website on Amazon CloudFront
B. Migrate the website content to Amazon EC2 instances with public Elastic IP addresses in multiple AWS Regions
C. Migrate the website content to Amazon EC2 instances and vertically scale as the load increases
D. Use Amazon Route 53 to distribute the loads across multiple Amazon CloudFront distributions for each AWS Region that exists globally
答案：A

377. A media company has an application that tracks user clicks on its websites and performs analytics to provide near-real-time recommendations. The application has a fleet of Amazon EC2 instances that receive data from the websites

and send the data to an Amazon RDS DB instance. Another fleet of EC2 instances hosts the portion of the application that is continuously checking changes in the database and executing SQL queries to provide recommendations Management has requested a redesign to decouple the infrastructure. The solution must ensure that data analysts are writing SQL to analyze the data only. No data can be lost during the deployment

What should a solutions architect recommend？

A. Use Amazon Kinesis Data Streams to capture the data from the websites, Kinesis Data Firehose to persist the data on Amazon S3，and Amazon Athena to query the data

B. Use Amazon Kinesis Data Streams to capture the data from the websites, Kinesis Data Analytics to query the data, and Kinesis Data Firehose to persist the data on Amazon S3

C. Use Amazon Simple Queue Service（Amazon SQS）to capture the data from the websites, keep the fleet of EC2 instances, and change to a bigger instance type in the Auto Scaling group configuration

D. Use Amazon Simple Notification Service （Amazon SNS） to receive data from the websites and proxy the messages to AWS Lambda functions that execute the queries and persist the data Change Amazon RDS to Amazon Aurora Serverless to persist the data

答案：A

378. A company is using a fleet of Amazon EC2 instances to ingest data from on-premises data sources. The data is in JSON format and ingestion rates can be as high as 1 MB/s. When an EC2 instance is rebooted, the data in-flight is lost. The company's data science team wants to query ingested data in near-real time

Which solution provides near-real-time data querying that is scalable with minimal data loss？

A. Publish data to Amazon kinesis Data Streams. Use Kinesis Data Analytics to query the data

B. Publish data to Amazon kinesis Data Firehose with Amazon Redshift as the destination. Use Amazon Redshift to query the data

C. Store ingested data in an EC2 instance store. Publish data to Amazon Kinesis Data Firehose with Amazon S3 as the destination. Use Amazon Athena to query the data

D. Store Ingested data in an Amazon Elastic Block (Store Amazon EBS） volume. Publish data to Amazon Elasticache for Redis. Subscribe to the Redis channel to query the data

答案：B

379. A solutions architect needs to ensure that all Amazon Elastic Block Store（Amazon EBS） volumes restored from unencrypted EBS snapshots are encrypted

What should the solutions architect do to accomplish this？

A. Enable EBS encryption by default for the AWS Region

B. Enable EBS encryption by default for the specific volumes

C. Create a new volume and specify the symmetric customer master key （CMK） to use for encryption

D. Create a new volume and specify the asymmetric customer master key （CMK） to use for encryption

答案：B

380. A company has applications hosted on Amazon EC2 instances with IPv6 addresses. The applications must initiate communications with other external applications using the internet. However, the company's security policy states that any external service cannot initiate a connection to the EC2 instances

What should a solutions architect recommend to resolve this issue？

A. Create a NAT gateway and make it the destination of the subnet's route table

B. Create an internet gateway and make it the destination of the subnet's route table

C. Create a virtual private gateway and make it the destination of the subnet's route table

D. Create an egress-only internet gateway and make it the destination of the subnet's route table

答案：A

381. A company that operates a web application on premises is preparing to launch a newer version of the application on AWS. The company needs to route requests to either the AWS-hosted or the on-premises-hosted application based on the URL query string. The on-premises application is not available from the internet, and a VPN connection is established between Amazon VPC and the company's data center. The company wants to use an Application Load Balancer（ALB） for this launch Which solution meets these requirements？

A. Use two ALBs: one for on premises and one for the AWS resource. Add hosts to each target group of each ALB. Route with Amazon Route 53 based on the URL query string

B. Use two ALBS: one for on premises and one for the AWS resource. Add hosts to the target group of each ALB. Create a software router on an EC2 instance based on the URL query string

C. Use one ALB with two target groups: one for the AWS resource and one for on premises. Add hosts to each target group of the ALB Configure listener rules based on the URL query string.

D. Use one ALB with two AWS Auto Scaling groups: one for the AWS resource and one for on premises. Add hosts to each Auto Scaling group. Route with Amazon Route 53 based on the URL query string

答案：A

382. A company wants to host its web application on AWS using multiple Amazon EC2 instances across different AWS Regions. Since the application content will be specific to each geographic region, the client requests need to be routed to the server that hosts the content for that client's Region

What should a solutions architect do to accomplish this?

A. Configure Amazon Route 53 with a latency routing policy.

B. Configure Amazon Route 53 with a weighted routing policy

C. Configure Amazon Route 53 with a geolocation routing policy

D. Configure Amazon Route 53 with a multivalue answer routing policy

答案：D

383. A company has an API-based inventory reporting application running on Amazon EC2 instances. The application stores information in an Amazon DynamoDB table. The company's distribution centers have an on-premises shipping application that calls an API to update the inventory before printing shipping labels. The company has been experiencing application interruptions several times each day, resulting in lost transactions.

What should a solutions architect recommend to improve application resiliency?

A. Modify the shipping application to write to a local database

B. Modify the application APIs to run serverless using AWS Lambda

C. Configure Amazon API Gateway to call the EC2 inventory application APIs

D. Modify the application to send inventory updates using Amazon Simple Queue Service （Amazon SQS)

答案：D

384. A Company is launching a new application deployed on an Amazon Elastic Container Service （Amazon ECS） cluster and is using the Fargate launch type for ECS tasks. The company is monitoring CPU and memory usage because it is expecting high traffic to the application upon its launch. However, the company wants to reduce costs when utilization decreases.

What should a solutions architect recommend?

A. Use Amazon EC2 Auto Scaling to scale at certain periods based on previous traffic patterns

B. Use an AWS Lambda function to scale Amazon ECS based on metric breaches that trigger an Amazon CloudWatch alarm

C. Use Amazon EC2 Auto Scaling with simple scaling policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm

D. Use AWS Application Auto Scaling with target tracking policies to scale when ECS metric breaches trigger an Amazon

答案：D

385. A company is building its web application using containers on AWS. The company requires three instances of the web application to run at all times. The application must be able to scale to meet increases in demand. Management is extremely sensitive to cost but agrees that the application should be highly available

What should a solutions architect recommend?

A. Create an Amazon Elastic Container Service（Amazon ECS） cluster using the Fargate launch type. Create a task definition for the web application. Create an ECS service with a desired count of three tasks

B. Create an Amazon Elastic Container Service （Amazon ECS） cluster using the Amazon EC2 launch type with three container instances in one Availability Zone. Create a task definition for the web application. Place one task for each container Instance C. Create an Amazon Elastic Container Service （Amazon ECS） cluster using the fargate launch type with one container instance in three different Availability Zones. Create a task definition for the web application. Create an ECs service with a desired count of three tasks

D. Create an Amazon Elastic Container Service（Amazon ECS） cluster using the Amazon EC2 launch type with one container instance in two different Availability Zones. Create a task definition for the web application. Place two tasks on one container instance and one task on the remaining container instance

答案：C

386. A company's order fulfillment service uses a MySQL database. The database needs to support a large number of concurrent queries and transactions. Developers are spending time patching and tuning the database. This is causing delays in releasing new product features.
The company wants to use cloud-based services to help address this new challenge. The solution must allow the developers to migrate the database with little or no code changes and must optimize performance
Which service should a solutions architect use to meet these requirements?
A. Amazon aurora
B. Amazon DynamoDB
C. Amazon ElastiCache
D. MySQL on Amazon EC2
答案：A

387. A company has an application that uses Amazon Elastic File System（Amazon EFS） to store data. The files are 1 GB in size or larger and are accessed often only for the first few days after creation. The application data is shared across a cluster of Linux servers. The company wants to reduce storage costs for the application
What should a solutions architect do to meet these requirements?
A. Implement Amazon FSx and mount the network drive on each server.
B. Move the files from Amazon EFS and store them locally on each Amazon EC2 instance
C. Configure a lifecycle policy to move the files to the EFS Infrequent Access （IA） storage class after 7 days
D. Move the files to Amazon S3 with S3 Lifecycle policies enabled. Rewrite the application to support mounting the S3 bucket
答案：A

388. A company serves a multilingual website from a fleet of Amazon EC2 instances behind an Application Load Balancer（ALB）. This architecture is currently running in the us-west-1 Region but is exhibiting high request latency for users located in other parts of the world
The website needs to serve requests quickly and efficiently regardless of a user's location. However, the company does not want to recreate the existing architecture across multiple Regions
How should a solutions architect accomplish this?
A. Replace the existing architecture with a website served from an Amazon S3 bucket. Configure an Amazon CloudFront distribution with the s3 bucket as the origin
B. Configure an Amazon Cloud Front distribution with the ALB as the origin. Set the cache behavior settings to only cache based on the Accept-Language request header.
C. Set up Amazon API Gateway with the ALB as an integration Configure API Gateway to use an HTTP integration type Set up an API Gateway stage to enable the API cache
D. Launch an EC2 instance in each additional Region and configure NGINX to act as a cache server for that Region. Put all the instances plus the ALB behind an Amazon Route 53 record set with a geolocation routing policy.
答案：A

389. A company wants to improve the availability and performance of its stateless UDP-based workload. The workload is deployed on Amazon EC2 instances in multiple Aws Regions
What should a solutions architect recommend to accomplish this?
A. Place the EC2 instances behind Network Load Balancers（NLBs） in each Region. Create an accelerator using AWS Global Accelerator. Use the NLBs as endpoints for the accelerator
B. Place the EC2 instances behind Application Load Balancers（ALBs）in each Region. Create an accelerator using Aws Global Accelerator. Use the ALBs as endpoints for the accelerator.
C. Place the EC2 instances behind Network Load Balancers （NLBs） in each Region. Create an Amazon CloudFront distribution with an origin that uses Amazon route 53 latency-based routing to route requests to the NLBs
D. Place the EC2 instances behind Application Load Balancers （ALBS） In each Region. Create an Amazon CloudFront distribution with an origin that uses Amazon Route 53 atency-based routing to route requests to the NLBs
答案：A

390. A solutions architect is designing an architecture to run a third-party database server. The database software is memory intensive and has a CPU-based licensing model where the cost increases with the number of vCPU cores within the operating system. The solutions architect must select an Amazon Ec2 instance with sufficient memory to run the

database software, but the selected instance has a large number of vCPUs. The solutions architect must ensure that the vCPUs will not be underutilized and must minimize costs

Which solution meets these requirements?

A. Select and launch a smaller EC2 instance with an appropriate number of vCPUs

B. Configure the CPU cores and threads on the selected EC2 instance during instance launch

C. Create a new EC2 instance and ensure multithreading is enabled when configuring the instance details

D. Create a new Capacity Reservation and select the appropriate instance type Launch the instance into this new Capacity Reservation

答案：D

391. The financial application at a company stores monthly reports in an Amazon s3 bucket. The vice president of finance has mandated that all access to these reports be logged and that any modifications to the log files be detected

Which actions can a solutions architect take to meet these requirements?

A. Use s3 server access logging on the bucket that houses the reports with the read and write data events and log file validation options enabled

B. Use S3 server access logging on the bucket that houses the reports with the read and write management events and log file validation options enabled

C. Use Aws Cloud Trail to create a new trail. Configure the trail to log read and write data events on the s3 bucket that houses the reports. Log these events to a new bucket, and enable log file validation

D. Use Aws Cloud T rail to create a new trail Configure the trail to log read and write management events on the S3 bucket that houses the reports. Log these events to a new bucket and enable log file validation

答案：C

392. A company is re-architecting a strongly coupled application to be loosely coupled. Previously, the application used a request/response pattern to communicate between tiers. The company plans to use Amazon Simple Queue Service

（Amazon SQS） to achieve decoupling requirements. The initial design contains one queue for requests and one for responses. However, this approach is not processing all the messages as the application scales

What should a solutions architect do to resolve this issue

A. Configure a dead-letter queue on the Receive Message API action of the SQS queue

B. Configure a FIFo queue, and use the message deduplication ID and message group ID

C. Create a temporary queue, with the Temporary Queue Client to receive each response message

D. Create a queue for each request and response on startup for each producer, and use a correlation ID message attribute

答案：B

393. A company needs to store data in Amazon S3. A compliance requirement states that when any changes are made to objects, the previous state of the object with any changes must be preserved. Additionally, files older than 5 years should not be accessed but need to be archived for auditing

What should a solutions architect recommend that is most cost-effective

A. Enable object-level versioning and s3 object Lock in governance mode

B. Enable object-level versioning and s3 object Lock in compliance mode

C. Enable object-level versioning. Enable a lifecycle policy to move data older than 5 years to s3 Glacier Deep Archive

D. Enable object-level versioning. Enable a lifecycle policy to move data older than 5 years to s3 Standard-Infrequent Access

（S3 Standard-A） 。

答案：C

394. A company has developed a microservices application. It uses a client-facing API with Amazon API Gateway and multiple interna services hosted on Amazon EC2 instances to process user requests. The API is designed to support unpredictable surges in traffic, but internal services may become overwhelmed and unresponsive for a period of time during surges. A solutions architect needs to design a more reliable solution that reduces errors when internal services become unresponsive or unavailable

Which solution meets these requirements?

A. Use Aws Auto Scaling to scale up internal services when there is a surge in traffic

B. Use different Availability Zones to host internal services. send a notification to a system administrator when an internal service becomes unresponsive

C. Use an Elastic Load Balancer to distribute the traffic between internal services. Configure Amazon CloudWatch metrics to monitor traffic to internal services

D. Use Amazon Simple Queue Service（Amazon sQs）to store user requests as they arrive. Change the internal services to retrieve the requests from the queue for processing

答案：A

395. A company hosts more than 300 global websites and applications. The company requires a platform to analyze more than 30 TB of clickstream data each day.

What should a solutions architect do to transmit and process the clickstream data？

A. Design an Aws Data Pipeline to archive the data to an Amazon s3 bucket and run an Amazon EMR cluster with the data to generate analytics

B. Create an Auto Scaling group of Amazon EC2 instances to process the data and send it to an Amazon s3 data lake for Amazon Redshift to use for analysis

C. Cache the data to Amazon Cloud Front Store the data in an Amazon s3 bucket. When an object is added to the s3 bucket run an Aws Lambda function to process the data for analysis

D. Collect the data from amazon kinesis data streams. Use amazon kinesis data firehose to transmit the data to an amazon s3 data lake. Load the data in Amazon Redshift for analysis

答案：D

396. A company is using a third-party vendor to manage its marketplace analytics. The vendor needs limited programmatic access to resources in the company's account. All the needed policies have been created to grant appropriate access

Which additional component will provide the vendor with the MOST secure access to the account？

A. Create an IAM user

B. Implement a service control policy（SCP）

C. Use a cross-account role with an external ID

D. Configure a single sign-on（sso）identity provider.

答案：B

397. A company has an application that is hosted on Amazon EC2 instances in two private subnets. A solutions architect must make the application available on the public internet with the least amount of administrative effort

What should the solutions architect recommend?

A. Create a load balancer and associate two public subnets from the same Availability Zones as the private instances. Add the private instances to the load balancer.

B. Create a load balancer and associate two private subnets from the same Availability Zones as the private instances. Add the private instances to the load balancer.

C. Create an Amazon Machine Image (AMI) of the instances in the private subnet and restore in the public subnet. Create a load balancer and associate two public subnets from the same Availability Zones as the public instances

D. Create an Amazon Machine Image（AMI）of the instances in the private subnet and restore in the public subnet. Create a load balancer and associate two private subnets from the same Availability Zones as the public instances

答案：D

398. A company has an Amazon S3 bucket that contains mission-critical data. The company wants to ensure this data is protected from accidental deletion. The data should still be accessible, and a user should be able to delete the data intentionally

Which combination of steps should a solutions architect take to accomplish this？（Select TWo）

A. Enable versioning on the s3 bucket.

B. Enable MFA Delete on the s3 bucket

C. Create a bucket policy on the s3 bucket

D. Enable default encryption on the s3 bucket

E. Create a lifecycle policy for the objects in the s3 bucket

答案：AB

399. A company is backing up on-premises databases to local file server shares using the SMB protocol. The company requires immediate access to 1 week of backup files to meet recovery objectives. Recovery after a week is less likely to occur, and the company can tolerate a delay in accessing those older backup files

What should a solutions architect do to meet these requirements with the LEAST operational effort？

A. Deploy Amazon FSx for Windows file Server to create a file system with exposed file shares with sufficient storage to hold all the desired backups

B. Deploy an Aws Storage Gateway file gateway with sufficient storage to hold 1 week of backups. Point the backups to SMB shares from the file gateway

C. Deploy Amazon Elastic File System（Amazon EFS）to create a file system with exposed NFS shares with sufficient storage To hold all the desired backups.

D. Continue to back up to the existing file shares Deploy aws Database Migration Service （AWS DMS） and define a copy task to copy backup files older than 1 week to Amazon S3 and delete the backup files from the local file store

答案：A

400. A company is planning to migrate a commercial off-the-shelf application from its on-premises data center to AwS. The software has a software licensing model using sockets and cores with predictable capacity and uptime requirements. The company wants to use its existing licenses, which were purchased earlier this year
Which Amazon EC2 pricing option is the MOST cost-effective?
A. Dedicated Reserved Hosts
B. Dedicated On-Demand Hosts
C. Dedicated Reserved Instances
D. Dedicated On-Demand Instances
答案：C

401. An ecommerce company is experiencing an increase in user traffic. The company's store is deployed on Amazon EC2 instances as a two-tier web application consisting of a web tier and a separate database tier. As traffic increases, the company notices that the architecture is causing significant delays in sending timely marketing and order confirmation email to users. The company wants to reduce the time it spends resolving complex email delivery issues and minimize operational overhead What should a solutions architect do to meet these requirements?
A. Create a separate application tier using EC2 instances dedicated to email processing
B. Configure the web instance to send email through Amazon Simple Email Service（Amazon SES）
C. Configure the web instance to send email through Amazon Simple Notification Service（Amazon SNS）
D. Create a separate application tier using EC2 instances dedicated to email processing. Place the instances in an Auto Scaling group
答案：B

402. A company is storing sensitive user information in an Amazon S3 bucket. The company wants to provide secure access to this bucket from the application tier running on Amazon EC2 instances inside a VPC
Which combination of steps should a solutions architect take to accomplish this? （Select TWO.）
A. Configure a VPC gateway endpoint for Amazon S3 within the VPC
B. Create a bucket policy to make the objects in the S3 bucket public.
C. Create a bucket policy that limits access to only the application tier running in the VPC
D. Create an IAM user with an S3 access policy and copy the IAM credentials to the EC2 instance
E. Create a NAT instance and have the EC2 instances use the NAT instance to access the S3 bucket
答案：AC

403. A company provides an online service for posting video content and transcoding it for use by any mobile platform. The application architecture uses Amazon Elastic File System（Amazon EFS） Standard to collect and store the videos so that multiple Amazon EC2 Linux instances can access the video content for processing. As the popularity of the service has grown over time the storage costs have become too expensive
Which storage solution is MOST cost-effective?
A. Use AWS Storage Gateway for files to store and process the video content
B. Use Aws Storage Gateway for volumes to store and process the video content
C. Use Amazon EFS for storing the video content. Once processing is complete, transfer the files to Amazon Elastic Block Store（Amazon EBS）
D. Use Amazon S3 for storing the video content. Move the files temporarily over to an Amazon Elastic Block Store（Amazon EBS） volume attached to the server for processing
答案：A

404. A company has an image processing workload running on Amazon Elastic Container Service （Amazon ECS） in two private subnets Each private subnet uses a NAT instance for internet access. All images are stored in Amazon S3 buckets. The company is concerned about the data transfer costs between Amazon ECS and Amazon S3

What should a solutions architect do to reduce costs？

A. Configure a NAT gateway to replace the NAT instances

B. Configure a gateway endpoint for traffic destined to AmazonS3

C. Configure an interface endpoint for traffic destined to Amazon S3

D. Configure Amazon CloudFront for the S3 bucket storing the images

答案：D

405. A company hosts its multi-tier, public web application in the AWS Cloud. The web application runs on Amazon EC2 instances, and its database runs on Amazon RDS The company is anticipating a large increase in sales during an upcoming holiday weekend. A solutions architect needs to build a solution to analyze the performance of the web application with a granularity of no more than 2 minutes

What should the solutions architect do to meet this requirement？

A. Send Amazon CloudWatch logs to Amazon Redshift. Use Amazon Quick Sight to perform further analysis

B. Enable detailed monitoring on all EC2 instances Use Amazon Cloud Watch metrics to perform further analysis

C. Create an AWS Lambda function to fetch EC2 logs from Amazon CloudWatch Logs Use Amazon CloudWatch metrics to perform further analysis

D. Send EC2 logs to Amazon S3. Use Amazon Redshift to fetch logs from the s3 bucket to process raw data for further analysis with Amazon Quick Sight

答案：C

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

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

A. Set up an Amazon EC2 instance running a Redis database. Configure both applications to use the instance Store, process and delete the messages, respectively.

B. Use an Amazon Kinesis data stream to receive the messages from the sender application. Integrate the processing application with the Kinesis Client Library （KCL）

C. Integrate the sender and processor applications with an Amazon Simple Queue Service （Amazon SQS） queue. Configure a dead-letter queue to collect the messages that failed to process.

D. Integrate the sender application to an Amazon Simple Notification Service（Amazon SNS） topic to receive notifications to process. Integrate the sender application to write to the SNS topic

答案：C

407. A solutions architect is creating a new VPC design. There are two public subnets for the load balancer, two private subnets for web servers and two private subnets for MySQL. The web servers use only HTTPS. The solutions architect has already created a security group for the load balancer allowing port 443 from 0.0.0.0/0. Company policy requires that each resource has the least access required to still be able to perform its tasks

Which additional configuration strategy should the solutions architect use to meet these requirements？

A. Create a security group for the web servers and allow port 443 from 0.0.0.0/0. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.

B. Create a network ACL for the web servers and allow port 443 from 0.0.0.0/0. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group

C. Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group

D. Create a network ACL for the web servers and allow port 443 from the load balancer. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group

答案：B

408. A company that recently started using AWS establishes a Site-to-Site VPN between its on-premises data center and AWS. The company's security mandate states that traffic originating from on premises should stay within the company's

private IP space when communicating with an Amazon Elastic Container Service（Amazon ECS） cluster that is hosting a sample web application

Which solution meets this requirement

A. Configure a gateway endpoint for Amazon ECS. Modify the route table to include an entry pointing to the ECS cluster.

B. Create a Network Load Balancer and AWS PrivateLink endpoint for Amazon ECs in the same VPC that is hosting the ECS cluster

C. Create a Network load Balancer in one VPC and an AWS PrivateLink endpoint for Amazon ECS in another VPC. Connect the two VPCs by using VPC peering

D. Configure an Amazon Route 53 record with Amazon ECS as the target. Apply a server certificate to Route 53 from AWS Certificate Manager（ACM） for SSL offloading

答案：B

409. A company stores 200 GB of data each month in Amazon S3. The company needs to perform analytics on this data at the end of each month to determine the number of items sold in each sales region for the previous month

Which analytics strategy is MOST cost-effective for the company to use?

A. Create an Amazon Elasticsearch Service（Amazon ES） cluster. Query the data in Amazon ES. visualize the data by using Kiana

B. Create a table in the AWS Glue Data Catalog. Query the data in Amazon S3 by using Amazon Athena Visualize the data in Amazon QuickSight

C. Create an Amazon EMR cluster Query the data by using Amazon EMR, and store the results in Amazon S3. Visualize the data in Amazon QuickSight

D. Create an Amazon Redshift cluster Query the data in Amazon Redshift, and upload the results to Amazon S3. Visualize the data in Amazon Quick Sight

答案：B

410. A company has an on-premises application that collects data and stores it to an on-premises NFS server. The company recently set up a 10 Gbps AWS Direct Connect connection. The company is running out of storage capacity on premises. The company needs to migrate the application data from on premises to the AWS Cloud while maintaining low-latency access to the data from the on-premises application

What should a solutions architect do to meet these requirements?

A. Deploy AWS Storage Gateway for the application data, and use the file gateway to store the data in Amazon S3. Connect the on-premises application servers to the file gateway using NFS

B. Attach an Amazon Elastic File System（Amazon EFS） file system to the NFS server, and copy the application data to the EFS file system. Then connect the on-premises application to Amazon EFS

C. Configure AWS Storage Gateway as a volume gateway. Make the application data available to the on-premises application from the NFS server and with Amazon Elastic Block Store（Amazon EBS） snapshots

D. Create an Aws Data Sync agent with the NFS server as the source location and an Amazon Elastic File System （Amazon EFS） file system as the destination for application data transfer. Connect the on-premises application to the EFS file system

答案：D

411. The following IAM policy is attached to an IAM group. This is the only policy applied to the group

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "1",
            "Effect": "Allow",
            "Action": "ec2:*",
            "Resource": "*",
            "Condition": {
                "StringEquals": {
                    "ec2:Region": "us-east-1"
                }
            }
        },
        {
            "Sid": "2",
            "Effect": "Deny",
            "Action": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*",
            "Condition": {
                "BoolIfExists": {"aws:MultiFactorAuthPresent": false}
            }
        }
    ]
}
```

What are the effective IAM permissions of this policy for group members?

A. Group members are permitted any Amazon EC2 action within the us-east-1 Region Statements after the Allow permission are not applied

B. Group members are denied any Amazon EC2 permissions in the us-east-1 Region unless they are logged in with multi-factor authentication（MFA）

C. Group members are allowed the ec2：StopInstances and ec2：TerminateInstances permissions for all Regions when logged in with multi-factor authentication （MFA）. Group members are permitted any other Amazon EC2 action

D. Group members are allowed the ec2：StopInstances and ec2：TerminateInstances permissions for the us-east-1 Region only when logged in with multi-factor authentication （MFA）. Group members are permitted any other Amazon EC2 action within the us-east-1 Region

答案：C

412. A solutions architect must design a database solution for a high-traffic ecommerce web application. The database stores customer profiles and shopping cart information. The database must support a peak load of several million requests each second and deliver responses in milliseconds. The operational overhead for managing and scaling the database must be minimized

Which database solution should the solutions architect recommend？

A. Amazon aurora

B. Amazon DynamoDB

C. Amazon RDS

D. Amazon Redshift

答案：A

413. A company's data analysis team needs to perform real-time complex queries against a database. As the team grows, the complex queries are slowing down production transactions. The current environment has an Amazon RDS database with the largest instance type and is still experiencing performance issues

Which solution will reduce costs and resolve the performance issues？

A. Implement an Amazon RDs Read Replica of the production database to be used by the Data Analysis team and reduce the RDS database instance size

B. Implement Amazon ElastiCache and run the query against ElastiCache directly

C. Implement Amazon EC2 instances to run a cluster of the production database and remove the RDS

D. Implement a larger Amazon RDS database instance type and apply Reserved Instances by submitting a limit increase request。

一家公司的数据分析团队需要针对数据库执行实时的复杂查询。随着团队成员越来越多，复杂查询降低了生产事务的速度。当前环境包含一个具有最大实例类型的 Amazon RDS 数据库，但仍遇到性能问题。

哪种解决方案可以降低成本并解决性能问题？

A. 实施生产数据库的 Amazon RDS 只读副本以供数据分析团队使用，并减少 RDS 数据库实例大小

B. 实施 Amazon E1asticache 并直接针对 ElastiCache 运行查询

C. 实施 Amazon EC2 实例以运行一组生产数据库，并删除 RDS 数据库实例

D. 实施更大的 Amazon RDS 数据库实例类型，并提交限制增加请求以应用预留实例。

答案：A

414. A company's new web application running on Amazon EC2 across multiple Availability Zones（AZs）will be heavily accessed during regular business hours. After business hours, usage will be minimal.

What fleet-scaling approach should be used to size the EC2 fleet to handle the traffic demands？

A. Manual scaling across all AZs

B. Provisioning for peak traffic

C. Scheduled scaling

D. Programmatic termination of all instances in one AZ during off-peak hours

一家公司的新 web 应用程序在跨多个可用区 (AZ) 的 Amazon EC2 上运行，将在正常工作时间大量访问该应用程序。在非工作时间，使用量大大下降。 应使用哪种队列扩展方法设置 EC2 队列大小以满足流量需求？

A. 在所有 AZ 中手动扩展

B. 为高峰流量预置

C. 计划的扩展

D. 在非高峰时段以编程方式终止一个 AZ 中的所有实例

答案：C

415. A solutions architect needs to design an Amazon RDS for MySQL solution whereby users must be authenticated using only SSL connections. How should the solutions architect design the solution？
A. Only allow SSL connections. through a VPC security group
B. Use GRANT and ALTER commands with the REQUIRE SSL option for the user
C. Connect with a MySQL client that references the public key
D. Ensure that the SSL parameters are set in the parameter group at launch

解决方案架构师需要设计一个 Amazon RDS for MySQL 解决方案，以便只能使用 SSL 连接对用户进行身份验证。解决方案架构师应如何设计该解决方案？
A. 仅允许通过 VPC 安全组建立 SSL 连接。
B. 使用 REQUIRE SSL 选项为用户执行 GRATN 和 ALTER 命令
C. 连接到引用公有密钥的 MySQL 客端
D. 确保启动时在参数组中设置 SSL 参数
答案：A

416. A customer has an application that consists of two layers: an ingestion layer that does some initial processing, and a second layer that does additional processing, which is much more resource intensive. The first layer consists of EC2 On-Demand Instances to ensure that all requests can be successfully received. The second layer for processing requires GPUs and uses spot Instances
What service should the first layer use to deliver job batches to the second layer ?
A. AWS Batch
B. Amazon SQS
C. Amazon SNS
D. AWS Step Functions

客户具有一个包含两个层的应用程序：提取层执行初始处理，第二层执行额外的处理，该层需要的资源要多得多。第一层包含 EC2 按需实例，以确保可以成功收到所有请求。用于处理的第二层需要具有 GPU 并使用 Spot 实例。第一层应使用哪种服务以将作业批次传送到第二层？
A. AWS Batch
B. Amazon SQS
C. Amazon SNS
D. AWS Step Functions
答案：B

417. A company has an application that generates invoices and makes the invoices available online. Invoices are stored as PDFS in an Amazon S3 bucket. Customers typically only view each invoice during the month it is issued. However, past invoices need to be immediately available. There are concerns over rising storage costs as the company gains more customers.
What is the most cost-effective method to store the data？
A. Use Amazon S3 for current invoices. Set up lifecycle rules to migrate invoices to the GLACIER storage class after 30 days.
B. Store the invoices as text files. Use amazon Cloud Front to convert the invoices from text to PDF when customers download invoices
C. Store the invoices as binaries in an Amazon RDS database instance. Retrieve them from the database when customers request invoices
D. Use Amazon S3 for current invoices. Set up lifecycle rules to migrate invoices to Amazon S3 Standard Infrequent Access（S3 Standard-IA）after 30 days.

一家公司具有一个生成并在线提供发票的应用程序。发票以 PDF 形式存储在 Amazon S3 存储桶中。通常，客户仅在开发票的月份查看每张发票。不过，需要能够立即查看过去的发票。随着公司的客户越来越多，公司担心存储成本会有所增加。
存储数据的最经济高效的方法是什么？
A.使用 Amazon S3 存储当前发票。设置生命周期规则，以便在 30 天后将发票迁移到 GLACIER 存储类
B.将发票存储为文本文件。在客户下载发票时，使用 Amazon CloudFront 将发票从文本转换为 PDF
C.将发票以二进制文件形式存储在 Amazon RDS 数据库实例中。在客户索取发票时，从数据库中检索这些文件。
D.使用 Amazon S3 存储当前发票。设置生命周期规则，以便在 30 天后将发票迁移到 Amazon S3 Standard-不经常访（S3-Standard-IA)
答案：D

418. A company deployed a three-tier web application on Amazon EBS backed Amazon EC2 instances for the web and application tiers, and Amazon RDS for the database tier. The company is concerned about loss of data in the web and application tiers

What is the MOST efficient way to prevent data loss？

A. Create an Amazon EFS file system and run a shell script to copy the data

B. Create an Amazon EBS snapshot using an Amazon CloudWatch Events rule

C. Create an Amazon S3 snapshot policy to back up the Amazon EBS volumes

D. Create a snapshot lifecycle policy that takes periodic snapshots of the Amazon EBS volumes

一家公司部署了一个三层 web 应用程序，对于 web 和应用程序层，它部署在 Amazon EBS 支持的 Amazon EC2 实例上，对于数据库层，它部署在 Amazon RDS 上。该公司担心在 web 和应用程序层中可能会丢失数据。防止数据丢失的最有效方法是什么？

A.创建 Amazon EFS 文件系统，并运行 she11 脚本以复制数据

B.使用 Amazon c1outwatch events 规则创建 Amazon EBS 快照

C.创建 Amazon S3 快照策略以备份 Amazon EBS 卷。

D.创建快照生命周期策略以定期拍摄 Amazon EBS 卷快照。

答案：D

419. A solutions architect is designing a new application that will be hosted on EC2 instances. This application has the following traffic requirements:

-Accept HTTP（80）/HTTPS（443）traffic from the internet

-Accept FTP（21）traffic from only the finance team servers at 10. 10.2.0/24

Which of the following AWs CloudFormation snippets correctly declares inbound security group rules that meet the requirements and prevent unauthorized access to additional services on the instance?

A.
```
[{
    "IpProtocol" : "tcp",
    "FromPort" : "0",
    "ToPort" : "65535",
    "CidrIp" : "10.10.2.0/24"
}, {
    "IpProtocol" : "tcp",
    "FromPort" : "443",
    "ToPort" : "443",
    "CidrIp" : "0.0.0.0/0"
},
{
    "IpProtocol" : "tcp",
    "FromPort" : "80",
    "ToPort" : "80",
    "CidrIp" : "0.0.0.0/0"
}]
```

B.
```
[{
    "IpProtocol" : "tcp",
    "FromPort" : "21",
    "ToPort" : "21",
    "CidrIp" : "10.10.2.0/18"
}, {
    "IpProtocol" : "tcp",
    "FromPort" : "443",
    "ToPort" : "443",
    "CidrIp" : "0.0.0.0/0"
},
{
    "IpProtocol" : "tcp",
    "FromPort" : "80",
    "ToPort" : "80",
    "CidrIp" : "0.0.0.0/0"
}]
```

shida

C.

```
[{
    "IpProtocol" : "tcp",
    "FromPort" : "443",
    "ToPort" : "443",
    "CidrIp" : "0.0.0.0/0"
},
{
    "IpProtocol" : "tcp",
    "FromPort" : "80",
    "ToPort" : "80",
    "CidrIp" : "0.0.0.0/0"
},
{
    "IpProtocol" : "tcp",
    "FromPort" : "21",
    "ToPort" : "21",
    "CidrIp" : "10.10.2.0/24"
}]
```

D.

```
[{
    "IpProtocol" : "udp",
    "FromPort" : "443",
    "ToPort" : "443",
    "CidrIp" : "0.0.0.0/0"
},
{
    "IpProtocol" : "udp",
    "FromPort" : "80",
    "ToPort" : "80",
    "CidrIp" : "0.0.0.0/0"
},
{
    "IpProtocol" : "udp",
    "FromPort" : "21",
    "ToPort" : "21",
    "CidrIp" : "10.10.2.0/24"
}]
```

答案：C

420. A solutions architect is designing an API that will use Amazon API Gateway, which is backed by AWS Lambda. The Lambda function is not running inside a VPC and will query Amazon DynamoDB to get the results. The user will include the ItemId request parameter in the URL query string as the key to retrieve the data. The solutions architect analyzed the traffic pattern and has noticed that customers are sending repeated queries to get the same information. The solutions architect wants to implement a caching mechanism to reduce the load on the database and improve query latency.
What should the solutions architect do to implement a caching solution？
A. In API Gateway, add an additional Cache-control： only-if-cached header before sending the request to lambda
B. In API Gateway, enable caching based on the ItemId query parameter
C. In Lambda, use /tmp as the cache directory to store previously retrieved requests
D. In Amazon ElastiCache, store previously retrieved requests and query the cluster before querying the database.
答案：D

421. An application is scanning an Amazon DynamoDB table that was created with default settings. The application occasionally reads stale data when it queries the table
How can this issue be corrected？
A. Increase the provisioned read capacity of the table
B. Enable Auto Scaling on the DynamoDB table
C. Update the application to use strongly consistent reads
D. Re-create the DynamoDB table with eventual consistency disabled
一个应用程序扫描使用默认设置创建的 Amazon DynamoDB 表。在查询该表时，应用程序偶尔会读取过时的数据。
如何纠正该问题？
A.增加该表的预置读取容量
B.在 DynamoDB 表上启用 Auto Scaling
C.更新应用程序以使用强一致性读取
D.重新创建 DynamoDB 表并禁用最终一致性

答案：B

422. A company wants to expand its web services from us-east-1 into ap-southeast-1. The company stores a large amount of static content on its website, and recently received complaints about slow loading speeds and the website timing What should be done to meet the expansion goal while also addressing the latency and timeout issues？

A. Store the static content in Amazon S3 and enable S3 Transfer Acceleration

B. Store the static content in an Amazon EBS volume in the ap-southeast-1 region and provision larger Amazon EC2 instances for the website

C. Use an Amazon Route 53 simple routing policy to distribute cached content across three regions

D. Use Amazon S3 to store the static content and configure an Amazon CloudFront distribution

一家公司希望将其 web 服务从 us-east-1 扩展到 ap-southeast-1.该公司在网站上存储大量静态内容，最近收到客户的投诉，指出加速度缓慢以及网站超时。应采取哪些措施以实现扩展目标，同时还解决了延迟和超时问题？

A. 将静态内容存储在 Amazon S3 中，并启用 S3 Transfer Acce1eration。

B. 将静态内容存储在 ap- southeast-1 区域的 Amazon EBS 卷中，并为网站预置更大的 Amazon EC2 实例

C. 使用 Amazon Route53 简单路由策略在三个区域中分配缓存的内容。

D. 使用 Amazon S3 存储静态内容，并配置 Amazon C1outFront 分配

答案：D

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

A. Create an Amazon Cloud front distribution and configure the ALB as an origin. Then update the Amazon Route 53 record to point to the CloudFront distribution

B. Create a latency-based Amazon Route 53 record for the ALB. Then launch new EC2 instances with larger instance sizes and register the instances with the ALB

C. Launch new EC2 instances hosting the same web application in different Regions closer to the users Then register the instances with the same ALB using cross-Region VPC peering

D. Host the website in an Amazon S3 bucket in the Regions closest to the users and delete the ALB and EC2 instances. Then update an Amazon Route 53 record to point to the S3 buckets.

公司的网站在应用程序负载均衡器（ALB）后面的 Amazon EC2 实例上运行。该网站混合了动态内容和静态内容。全球范围内的用户报告说该网站现在很慢。哪一组操作能够为全球用户提高网站性能？

A.创建 Amazon CloudFront 分配并将 ALB 配置为源。然后更新指向 C1outFront 分配的 Amazon route53 记录。

B.更新 ALB 的基于延迟的 Amazon Route53 记录。然后启动更大的新实例并向 ALB 注册这些实例。

C.启动在距离用户更近的不同区域中托管同—网络应用程序的新 EC2 实例。然后使用跨区域 VPC 向相同的 ALB 注册这些

D.在距离用户最近的区域中的 Amazon S3 存储桶托管该网站，并删除 ALB 和 EC2 实例。然后更新指向 S3 存储桶的 Amazon Route53 记

答案：A

424. A security team reviewed their company's VPC Flow Logs and found that traffic is being directed to the internet. The application in the VPC uses Amazon EC2 instances for compute and Amazon S3 for storage. The company's goal is to eliminate internet access and allow the application to continue to function
What change should be made in the VPC before updating the route table？

A. Create a NAT gateway for Amazon S3 access

B. Create a VPC endpoint for Amazon S3 access

C. Create a VPC endpoint for Amazon EC2 access

D. Create a NAT gateway for Amazon EC2 access

安全团队查看了公司的 VPC 流日志，并发现流量传送到 Internet。ⅥPC 中的应用程序使用 Amazon EC2 实例进行计算，并使用 Amazon S3 进行存储。该公司的目标是消除 Internet 访问，并使应用程序继续正常工作在更新路由表之前，应在 VPC 中进行哪些更改？

A.创建 MAT 网关以进行 Amazon S3 访问

B.创建 VPC 终端节点以进行 Amazon S3 访问

C.创建 VPC 终端节点以进行 Amazon EC2 访问

D.创建 NAT 网关以进行 Amazon EC2 访问。

答案：B

425. A solutions architect is investigating purchasing options for a batch processing application on Amazon EC2. The batch job downloads an image from an Amazon S3 bucket, adds copyright information, and uploads it back to Amazon S3. It normally takes 5 to 10 hours to process all the files uploaded each week. The application has built-in capabilities to process files in parallel, recover from the instance failures, and continue the processing from where it left off

What is the MOST cost-effective purchasing option the solutions architect can recommend？

A. Standard Reserved Instances

B. Scheduled Reserved Instances

C. Spot Instances

D. On-Demand Instances

解决方案架构师正在分析 Amazon EC2 上的批处理应用程序的购买选项。批处理作业从 Amazon EC2 存储桶中下载图像，添加版权信息，然后将其重新上传到 Amazon S3 中。通常需要 5 到 10 个小时以处理每周上传的所有文件。该应用程序具有内置功能以并行处理文件，从实例故障中恢复，并从中断处继氧的批处理。

解决方案架构师建议使用的最经济高效的购买选项是什么？

A.标准预留实例

B.计划的预留实例

C. Spot 实例

D.按需实例

答案：B

426. A company receives data from millions of users totaling about 1 TB each day. The company provides its users with usage reports going back 12 months. All usage data must be stored for at least 5 years to comply with regulatory and auditing requirements

Which storage solution is MOST cost-effective？

A. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 Glacier Deep Archive after 1 year. Set a lifecycle rule to delete the data after 5 years

B. Store the data in Amazon S3 One Zone-Infrequent Access (S3 One Zone-A)。 Set a lifecycle rule to transition the data to S3 Glacier after 1 year. Set the lifecycle rule to delete the data after 5 years

C. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 Standard-Infrequent Access（S3 Standard-IA）after 1 year. Set a lifecycle rule to delete the data after 5 years

D. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 One Zone-Infrequent Access（S3 One Zone-IA）after 1 year. Set a lifecycle rule to delete the data after 5 years

答案：A

427. A company wants to build an online marketplace application on AWS as a set of loosely coupled microservices. For this application when a customer submits a new order, two microservices should handle the event simultaneously. The Email microservice will send a confirmation email, and the Order Processing microservice will start the order delivery process. If a customer cancels an order, the OrderCancellation and Email microservices should handle the event simultaneously

A solutions architect wants to use Amazon Simple Queue Service（Amazon SQS）and Amazon Simple Notification Service（Amazon SNS）to design the messaging between the microservices

How should the solutions architect design the solution？

A. Create a single SQS queue and publish order events to it. The Email, Order Processing, and OrderCancellation microservices can then consume messages off the queue

B. Create three SNS topics for each microservice Publish order events to the three topics. Subscribe each of the email OrderProcessing, and Ordercancellation microservices to its own topic

C. Create an SNS topic and publish order events to it. Create three SQS queues for the Email, Order Processing, and OrderCancellation microservices. Subscribe all SQS queues to the SNS topic with message filtering

D. Create two SQS queues and publish order events to both queues simultaneously. One queue is for the Email and OrderProcessing microservices. The second queue is for the Email and Ordercancellation microservices

答案：C

428. A company wants to automate the security assessment of its Amazon EC2 instances. The company needs to validate and demonstrate that security and compliance standards are being followed throughout the development process What

What should a solutions architect do to meet these requirements？

A. Use Amazon Macie to automatically discover, classify, and protect the EC2 instances.

B. Use Amazon Guard Duty to publish Amazon Simple Notification Service（Amazon SNS） notifications

C. Use Amazon Inspector with Amazon CloudWatch to publish Amazon Simple Notification Service（Amazon SNS）notifications

D. Use Amazon EventBridge（Amazon CloudWatch Events） to detect and react to changes in the status of AWS Trusted Advisor checks

答案：B

429. A company is hosting 60 TB of production-level data in an Amazon S3 bucket. A solutions architect needs to bring that data on premises for quarterly audit requirements. This export of data must be encrypted while in transit. The company has low network bandwidth in place between Aws and its on-premises data center

What should the solutions architect do to meet these requirements？

A. Deploy AWS Migration Hub with 90-day replication windows for data transfer

B. Deploy an AWS Storage Gateway volume gateway on AWS. Enable a 90-day replication window to transfer the data

C. Deploy Amazon Elastic File System（Amazon EFS）， with lifecycle policies enabled, on AWS. Use it to transfer the data.

D. Deploy an AWS Snowball device in the on-premises data center after completing an export job request in the AWS Snowball console

答案：D

430. A company recently migrated a message processing system to AWS. The system receives messages into an ActiveMQ queue running on an Amazon EC2 instance Messages arb processed by a consumer application running on Amazon EC2. The consumer application processes the messages and writes results to a MySQL database running on Amazon EC2. The company wants this application to be highly available with low operational complexity

Which architecture offers the HIGHEST availability ？

A. Add a second ActiveMQ server to another Availability Zone. Add an additional consumer EC2 instance in another Availability Zone. Replicate the MySQL database to another Availability Zone

B. Use Amazon MQ with active/standby brokers configured across two Availability Zones. Add an additional consumer EC2 instance in another Availability Zone Replicate the MySQL database to another Availability Zone

C. Use Amazon MQ with active/standby brokers configured across two Availability Zones. Add an additional consumer EC2 instance in another Availability Zone. Use Amazon RDS for MySQL with Multi-AZ enabled

D. Use Amazon MQ with active/standby brokers configured across two Availability Zones. Add an Auto Scaling group for the consumer EC2 instances across two Availability Zones. Use Amazon RDs for MySQL with Multi-AZ enabled

答案：D

431. A company hosts its application using Amazon Elastic Container Service（Amazon ECS） and wants to ensure high availability. The company wants to be able to deploy updates to its application even if nodes in one Availability Zone are not accessible

The expected request volume for the application is 100 requests per second, and each container task is able to serve at least 60 requests per second. The company set up Amazon ECS with a rolling update deployment type with the minimum healthy percent parameter set to 50% and the maximum percent set to 100%

Which configuration of tasks and Availability Zones meets these requirements？

A. Deploy the application across two Availability Zones, with one task in each Availability Zone

B. Deploy the application across two Availability Zones, with two tasks in each Availability Zone

C. Deploy the application across three Availability Zones, with one task in each Availability Zone

D. Deploy the application across three Availability Zones, with two tasks in each Availability Zone

答案：D

432. A company is working with an external vendor that requires write access to the company's Amazon Simple Queue Service（Amazon SQS） queue. The vendor has its own AWS account

What should a solutions architect do to implement least privilege access？

A. Update the permission policy on the SQS queue to give write access to the vendor's AWS account

B. Create an IAM user with write access to the SQS queue and share the credentials for the lAM user.

C. Update AWS Resource Access Manager to provide write access to the SQS queue from the vendor's AWS account.

D. Create a cross-account role with access to all SQS queues and use the vendor's AWS account in the trust document for the role

答案：D

433. 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 Analytics. All the applications will read and process the messages
B. Deploy the application on Amazon EC2 instances in an Auto scaling group, which scales the number of EC2 instances based on CPU metrics
C. Write the messages to Amazon kinesis Data Streams with a single shard. All applications will read from the stream and process the messages
D. Publish the messages to an Amazon Simple Notification Service（Amazon SNS） topic with one or more Amazon Simple Queue Service（Amazon SQS） subscriptions. All applications then process the messages from the queues
答案：C

434. A company is moving its on-premises applications to Amazon EC2 instances. However, as a result of fluctuating compute requirements, the EC2 instances must always be ready to use between 8 AM and 5 PM in specific Availability Zones
Which EC2 instances should the company choose to run the applications?
A. Scheduled reserved Instances
B. On-Demand Instances
C. Spot Instances as part of a Spot Fleet
D. EC2 instances in an Auto scaling group
答案：A

435. A solutions architect must analyze and update a company's existing lAM policies prior to deploying a new workload. The solutions architect created the following policy：

```
{
"Version": "2012-10-17",
    "Statement": [{
        "Effect": "Deny",
        "NotAction": "s3:PutObject",
        "Resource":   "*",
        "Condition":    {"BoolIfExists":  {"aws:MultiFactorAuthPresent": "false"}}
    }]
}
```

What is the net effect of this policy?
A. Users will be allowed all actions except s3：PutObject if multi-factor authentication（MFA） is enabled
B. Users will be allowed all actions except s3 PutObject if multi-factor authentication（MFA） is not enabled
C. Users will be denied all actions except s3：PutObject if multi-factor authentication（MFA） is enabled
D. Users will be denied all actions except s3：PutObject if multi-factor authentication（MFA） is not enabled
答案：D

436. An administrator of a large company wants to monitor for and prevent any cryptocurrency-related attacks on the company's AWS accounts
Which AWS service can the administrator use to protect the company against attacks?
A. Amazon Cognito
B. Amazon GuardDuty
C. Amazon Inspector
D. Amazon Macie
答案：B

437. A company has an ecommerce application running in a single VPC. The application stack has a single web server and an Amazon RDS Multi-AZ DB instance
The company launches new products twice a month. This increases website traffic by approximately 400% for a minimum of 72 hours. During product launches, users experience slow response times and frequent timeout errors in their browsers.
What should a solutions architect do to mitigate the slow response times and timeout errors while minimizing operational overhead?
A. Increase the instance size of the web server

B. Add an Application Load Balancer and an additional web server

C. Add Amazon EC2 Auto Scaling and an Application Load Balancer.

D. Deploy an Amazon ElastiCache cluster to store frequently accessed data

答案：C