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Your answers are shown below:

1. 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?

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Create a Network Load Balancer backed by the existing servers in different Availability Zones as the target.

Create a Network Load Balancer backed by an Auto Scaling group with instances in multiple Availability Zones as the target.



Question was not answered

2. A solutions 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?

Create an Amazon S3 bucket to store the web content and use Amazon CloudFront to deliver the content.

Create an Amazon Elastic File System (Amazon EFS) file system and mount it on the individual Amazon EC2 instances.



Create a shared Amazon Elastic Block Store (Amazon EBS) volume and mount it on the individual Amazon EC2 instances

Use AWS DataSync to perform continuous synchronization of data between Amazon EC2 hosts in the Auto Scaling group.

Question was not answered

3. A solutions architect is designing a multi-Region disaster recovery solution for an application that will provide public API access . The application will use Amazon EC2 instances with a userdata script to load application code and an Amazon RDS for MySQL database. The Recovery

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Use an Application Load Balancer for Region failover . Deploy new EC2 instances with the userdata script. Deploy separate RDS instances in each Region.

Use Amazon Route S3 for Region failover . Deploy new EC2 instances with the userdata script . Create a read replica of the RDS instance in a backup Region .

Use Amazon API Gateway for the public APIs and Region failover . Deploy new EC2 instances with the userdata script . Create a MySQL read replica of the RDS instance in a backup Region .


Use Amazon Route 53 for Region failover Deploy new EC2 instances with the userdata script for APIs, and create a snapshot of the RDS instance daily for a backup Replicate the snapshot to a backup Region. 

Question was not answered

4. 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?

Create a bucket policy for each of the company's trusted S3 buckets that allows traffic only from the company's trusted VPCS

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 

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

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.

Question was not answered

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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?

Place all the EC2 instances in an Auto Scaling group

Place all the EC2 instances in the same AWS Region 

Place all the EC2 instances in private subnets in multiple Availability Zones

Place all the EC2 instances in the same Availability Zones

Question was not answered

6. 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?

Use Amazon Kinesis Data Streams to ingest the data . Process the data using AWS Lambda functions.

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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 . 

Question was not answered

7. A company previously migrated its data warehouse solution to AWS . The company also has an AWS Direct Connect connection Corporate office users query the data warehouse using a visualization 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?

Host the visualization tool on premises and query the data warehouse directly over the internet.

Host the visualization tool in the same AWS Region as the data warehouse . Access it over the internet .

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.

Host the visualization tool in the same AWS Region as the data warehouse and access it over a Direct Connect connection at a location in the same Region . 

Question was not answered


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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?

Deploy an AWS DataSync agent for the on-premises environment. Configure a sync job to replicate the data and connect it with an AWS service endpoint 

Deploy an AWS DataSync agent for the on-premises environment. Schedule a batch job to replicate point-in-time snapshots to AW

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 AW 

Deploy an AWS Storage Gateway file gateway for the on-premises environment
Configure it to store data locally, and asynchronously back up point-in-time snapshots to AW

9. 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 inquiries during the holiday season only that cause slower response times . A solutions architect needs to design a solution that is scalable and elastic

What should the solutions architect do to accomplish this?

Provide an API hosted on an Amazon EC2 instance. The EC2 Instance performs the required computations when the API request is made .

Design a REST API using Amazon API Gateway that accepts the item names^ 

API Gateway passes item names to AWS Lambda for tax computations
Create an Application Load Balancer that has two Amazon EC2 instances behind it. The EC2 Instances will compute the tax on the received item names.

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Question was not answered

10. A company runs a web service on Amazon EC2 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 four instances at all times to meet the required service level agreement (SLA) while keeping costs low.

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

Add a target tracking scaling policy with a short cooldown period,
Change the Auto Scaling group launch configuration to use a larger instance type

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

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

Question was not answered

11. 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 SOS .

Which configuration should a solutions architect recommend?

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Use two SOS standard queues: one for paid and one for free . Configure Amazon EC2 instances to prioritize polling for the paid queue over the tree queue .
Use one SOS standard queue . Set the visibility timeout of the paid photos to zero . Configure Amazon EC2 instances to prioritize visibility settings so paid photos processed first.



Question was not answered

12. 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?

Use Amazon S3 website hosting for the backup website and Route S3 failover routing policy. 
Use Amazon S3 website hosting for the backup website and Route S3 latency routing policy.
Deploy the application in another AWS Region and use ELB health checks for failover routing.
Deploy the application in another AWS Region and use server-side redirection on the primary website.

Question was not answered

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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?

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. 

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.

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.

Deploy AWS DataSync on-premises . Configure DataSync 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 .

Question was not answered

14. 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.

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Configure an Amazon Cloud Watch alarm that triggers the recovery of the EC2 instance if it becomes impaired .

Configure an Amazon Cloud Watch alarm to trigger an SNS message that alerts the CTO when the EC2 instance is impaired.

Configure AWS Cloud Trail to monitor the health of the EC2 instance, and if it becomes impaired, trigger instance recovery.

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. 

Question was not answered


15. 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?

Configure two AWS Lambda functions to run the applications . Create an Amazon EC2 instance with an instance store volume to store the data.

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.

Configure one memory optimized Amazon EC2 Instance to run both applications simultaneously . Create an Amazon Elastic Block Store (Amazon EBS) volume with Provisioned IOPS store the data.

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. 

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16. 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?

Amazon Aurora 

Amazon RDS for SqlServer

Amazon DynamoDB Streams

Amazon DynamoDB on-demand

Question was not answered

17. 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.)

NAT gateway 

Amazon RDS DB instances

Application Load Balancers 

Amazon EC2 application servers

Amazon Elastic File System (Amazon EFS) volumes

Question was not answered

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to be routed to the server that hosts the content for that client's Region .

What should a solutions architect do to accomplish this?

- Configure Amazon Route 53 with a latency routing policy.
- Configure Amazon Route 53 with a weighted routing policy
- Configure Amazon Route 53 with a geolocation routing policy . ✓✓
- Configure Amazon Route 53 with a multivalue answer routing policy .

Question was not answered

19. Management has decided to deploy all AWS VPCs with IPv6 enabled . After some time, a solutions architect tries to launch a new instance and receives an error stating that there is not enough IP address space available in the subnet .

What should the solutions architect do to fix this?

- Check to make sure that only IPV6 was used during the VPC creation
- Create a new IP 4 sub net with a larger range, and then launch the instance ✓✓
- Create a new IPV6-only subnet with a larger range, and then launch the instance
- Disable the IPv4 subnet and migrate all instances to IPv6 only. Once that is complete, launch the instance

Question was not answered

20. 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

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The company provides models to hundreds of users . The usage patterns for the models are Irregular. Some models could be unused for days or weeks. Other models could receive batches of thousands of requests at a time .

Which solution meets these requirements?

The requests from the API are sent to an Application Load Balancer (ALB). Models are deployed as AWS Lambda functions invoked by the AL

The requests from the API are sent to the models Amazon Simple Queue Service (Amazon SQS) queue . Models are deployed as AWS Lambda functions triggered by SQS events. Aws Auto Scaling is enabled on Lambda to increase the number of vCPUs based on the SQS queue size.

The requests from the API are sent to the model's Amazon Simple Queue Service (Amazon SQS) queue . Models are deployed as Amazon Elastic Container Service (Amazon ECS) services reading from the queue . AWS App Mesh scales the instances of the ECS cluster based on the SQS queue size. 

The requests from the API are sent to the model's Amazon Simple Queue Service (Amazon SQS) queue. Models are deployed as Amazon Elastic Container Service (Amazon ECS) services reading from the queue . AWS Auto Scaling is enabled on Amazon ECS for both the cluster and copies of the service based on the queue size.

Question was not answered

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

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Use Amazon EC2 with Auto scaling and amazon CloudFront to host the application .

Use Amazon EC2 with Auto scaling and amazon ElastiCache to host the application.

Question was not answered

Explanation:

A is better but costly starting at 0.04/gb

22. 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?

Use a VPC endpoint for DynamoD 

Use a NAT gateway in a public subnet

Use a NAT instance in a private subnet.

Use the internet gateway attached to the VPC

Question was not answered

23. A company has a mobile game that reads most of its metadata from an Amazon RDS DB Instance . As the game increased in popularity, developers noticed slowdowns related to the game's metadata load times. Performance metrics Indicate that simply scaling the database will not help.

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Migrate the database to Amazon Aurora with Aurora Replicas .
Migrate the database to Amazon DynamoDB with global tables .
Add an Amazon ElastiCache for Redis layer in front of the database . ✓
Add an Amazon ElastiCache for Memcached layer in front of the database.

Question was not answered

24. A company runs an 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 solutions architect needs to design a solution that optimizes utilization and reduces costs .

Which solution meets these requirements?

Use Amazon EC2 in an Auto Scaling group with On-Demand Instances. ✓
Build the application to use Amazon LightSail with On-Demand Instances.
Create an Amazon CloudWatch cron job to automatically stop the EC2 instances when there is no activity. ✓
Redesign the application to use an event-driven design with Amazon Simple Queue Service (Amazon SQS) and AWS Lambda . ✓

Question was not answered

Explanation:

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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?

Implement a client VPN 

Implement AWS Direct Connect.

implement a bastion host on Amazon EC2

Implement an AWS Site-to-Site VPN connection,

Question was not answered

26. 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?

Create a read replica and direct reporting traffic to the replica 

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

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

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

Question was not answered

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one private subnet in each of three Availability Zones (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 Internet access for the private subnets?

Create three NAT gateways^ one for each public subnet in each A 

Create a private route table for each AZ that forwards non-VPC traffic to the NAT gateway in its A

Create three NAT instances, one for each private subnet in each A

Create a private route table for each AZ that forwards non-VPC traffic to the NAT instance in its A

Create a second internet gateway on one of the private subnets . Update the route table for the private subnets that forward non-VPC traffic to the private internet gateway.

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 .

Question was not answered

28. 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.

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

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



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.

Question was not answered

29. A company has migrated an on-premises Oracle database to an Amazon RDS for Oracle Multi-AZ DB instance in the us-east-1 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 the us-east-1 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?

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 .

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.

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Create a multimaster read/write instances across multiple AXA/S Regions Select VPCs in useast-1 and us-west-2 to make that deployment Keep the master read/write instance in us-west-2 available to avoid having to activate a disaster recovery environment .


Question was not answered

30. 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?

Provision EC2 instances in us-west-1 Switch the Application Load Balancer to a Network Load Balancer to achieve cross-Region load balancing.

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.

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 . 

Provision EC2 instances and configure an Application Load Balancer in us west-1 Configure Amazon Route S3 with a weighted routing policy Create alias records in Route S3 that point to the Application Load Balancer

Question was not answered

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retrieval of data at no additional cost.

How can these requirements be met?

Deploy Amazon S3 Glacier Vault and enable expedited retrieval Enable provisioned retrieval capacity for the workload. ✓

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. ✓

Deploy AWS Storage Gateway using stored volumes to store data locally Use storage Gateway to synchronously back up point in time snapshots of the data to Amazon S3.

Deploy AWS Direct Connect to connect with on-premises data center configure AWS storage Gateway to store data totally Use Storage Gateway to synchronously back up point in time snapshots of the data to Amazon S3. ✓

Question was not answered

Explanation:

B is also right but not in terms of cost for bandwidth . Having a dedicated connection and pay per year can save a lot if the data is a lot on aws . Also glacier can't support immediate restore even with expedited .

32. 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?

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D. Amazon RDS for MySQL with Multi-AZ enabled

E. Amazon RDS for MySQL with a cross-Region snapshot copy

33. A solutions architect must design a solution that uses Amazon CloudFront with an Amazon S3 origin to store a static website. The company's security policy requires that all website traffic be inspected by AWS WAF.

How should the solutions architect comply with these requirements?

Configure an S3 bucket policy to accept requests coming from the AWS WAF Amazon Resource Name (ARN) only.

Configure Amazon CloudFront to forward all incoming requests to AWS WAF before requesting content from the S3 origin.

Configure a security group that allows Amazon CloudFront IP addresses to access Amazon S3 only. Associate AWS WAF to CloudFront.

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. ✓

Question was not answered

34. 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 .

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instance .

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 .

Create an IAM 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.

Create an IAM user with the appropriate policy to allow access to the DynamoDB table . Ensure that the application stores the IAM credentials securely on local storage and uses them to make the DynamoDB calls .

Question was not answered

Explanation:

b is right but this happen automatically when you create iam service role and choose the service . That is why A is more accurate .

35. A company wants to use Amazon S3 for the secondary copy of its on-premises dataset. The company would rarely need to access this copy. The storage solution's cost should be minimal.

Which storage solution meets these requirements?

S3 Standard 

S3 Intelligent-Tiering

S3 Standard Infrequent Access (S3 Standard-IA) 

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

Question was not answered

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but it has no high availability . And no mention of high availability so that we can choose C.

36. 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?

Amazon EBS Cold HDD (sc1)

Amazon EBS General Purpose SSD (gp2)

Amazon EBS provisioned IOPS SSD (io1)

Amazon EBS Throughput Optimized HDD (st1) ✓

Question was not answered

37. 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?

Create an Amazon EFS file system Configure amount target in each Availability Zone. Attach each instance to the appropriate mount target. ✓

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SIAM that grants the correct permissions to the S3 bucket. Attach the role to the EC2 instances that need access to the data.

Create an Amazon EBS volume with the appropriate permissions. Create a role in AWS IAM that grants the correct permissions to the EBS volume. Attach the role to the EC2 instances that need access to the data.

Question was not answered

38. 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?

Choose a cluster placement group while launching Amazon EC2 instances 

Choose dedicated instance tenancy while launching Amazon EC2 instances

Choose an Elastic Inference accelerator while launching Amazon EC2 instances

Choose the required capacity reservation while launching Amazon EC2 instances

Question was not answered

39. A solution architect has created a new AWS account and must secure AWS account root user access.

Which combination of actions will accomplish this? (Choose two.)

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

Question was not answered

40. 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?

Configure an Amazon CloudFront distribution in front of the AL

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

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

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

Question was not answered

41. 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 (DFS-R) to keep data in sync. A solutions architect needs to replace the file server farm.

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Amazon S3
AWS Storage Gateway

Question was not answered

42. 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?

Modify the network ACL on the CloudFront distribution to add a deny rule for the malicious IP address.

Modify the configuration of AWS WAF to add an IP match condition to block the malicious IP address. 

Modify the network ACL for the EC2 instances in the target groups behind the ALB to deny the malicious IP address.

Modify the security groups for the EC2 instances in the target groups behind the ALB to deny the malicious IP address.

Question was not answered

43. A marketing company is storing CSV files in an Amazon S3 bucket for statistical analysis. An application on an Amazon EC2 instance needs

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Attach a resource-based policy to the S3 bucket
Create an IAM user for the application with specific permissions to the S3 bucket
Associate an IAM role with least privilege permissions to the EC2 instance profile ✓
Store AWS credentials directly on the EC2 instance for applications on the instance to use for API calls

Question was not answered

44. 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?

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.
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. ✓
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.
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 AL

Question was not answered

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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?

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 AM

Create an Auto Scaling group using the launch configuration. Set the scaling policy for the Auto Scaling group to add and remove nodes based on CPU usage.

Create an Amazon SQS queue to hold the jobs that need to be processed. ✓

Create an Amazon Machine Image (AMI) that consists of the processor application. Create a launch configuration that uses the AM

Create an Auto Scaling group using the launch configuration. Set the scaling policy for the Auto Scaling group to add and remove nodes based on network usage.

Create an Amazon SQS queue to hold the jobs that need to be processed. Create an Amazon Machine Image (AMI) that consists of the processor application.

Create a launch template that uses the AM

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.

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 AM

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.

Question was not answered

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decided to rewrite the application as two microservices running on Amazon ECS that can scale independently.

How should a solutions architect integrate the microservices?

Implement code in microservice 1 to send data to an Amazon S3 bucket. Use S3 event notifications to invoke microservice 2.

Implement code in microservice 1 to publish data to an Amazon SNS topic.

Implement code in microservice 2 to subscribe to this topic.

Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose.

Implement code in microservice 2 to read from Kinesis Data Firehose.

Implement code in microservice 1 to send data to an Amazon SQS queue. 

Implement code in microservice 2 to process messages from the queue.

Question was not answered

47. 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?

S3 Glacier

S3 Intelligent-Tiering 

S3 Standard-Infrequent Access (S3 Standard-IA)

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

Question was not answered

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AWS Organizations. The solution must be scalable and there must be a single point where permission can be maintained.

What should a solutions architect do to accomplish this?

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

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


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

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

Question was not answered

49. 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?

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.

Create a latency-based Amazon Route 53 record for the AL

Then launch new EC2 instances with larger instance sizes and register the instances with the AL

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

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Question was not answered

50. 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? (Choose two.)

Amazon S3 for cold data storage ✓

Amazon EFS for cold data storage

Amazon S3 for high-performance parallel storage

Amazon FSx for Lustre for high-performance parallel storage ✓

Amazon FSx for Windows for high-performance parallel storage

Question was not answered

51. 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?

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

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Balancer in different Availability Zones

Question was not answered

52. 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?

Amazon RDS for MySQL

Amazon RDS for PostgreSQL

Amazon ElastiCache for Redis

Amazon ElastiCache for Memcached

Question was not answered

53. 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?

an Amazon Cloud Watch alarm to scale up the EC2 instances when CPU utilization exceeds 90%.

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Configure an Amazon Simple Notification Service (Amazon SNS) notification to send alerts when there are autoscaling: EC2_INSTANCE_LAUNCH events .

Question was not answered

54. 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? (Choose two.)

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

Question was not answered

55. A financial services company has a web application that serves users in the United States and Europe. The application consists of a database tier

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query performance as those in the United States.

Which changes should be made to the database tier to improve performance?

Migrate the database to Amazon RDS for MySQL

Configure Multi-AZ in one of the European Regions.

Migrate the database to Amazon DynamoD

Use DynamoDB global tables to enable replication to additional Regions. ✓

Deploy MySQL instances in each Region. Deploy an Application Load Balancer in front of MySQL to reduce the load on the primary instance.

Migrate the database to an Amazon Aurora global database in MySQL compatibility mode. Configure read replicas in one of the European Regions.

Question was not answered

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

What is the MOST cost-effective solution?

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

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

Mount the network-attached file system to Amazon S3 and copy the files directly.

Create a lifecycle policy to S3 objects to Amazon S3 Glacier.

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Question was not answered

57. 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?

Create hourly snapshots of the production RDS DB instance.

Create a Multi-AZ RDS Read Replica of the production RDS DB instance. ✓

Create multiple RDS Read Replicas of the production RDS DB instance. Place the Read Replicas in an Auto Scaling group.

Create a Single-AZ RDS Read Replica of the production RDS DB instance. Create a second Single-AZ RDS Read Replica from the replica.

Question was not answered

58. A company allows its developers to attach existing IAM 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, when would allow the developers to circumvent any other security policies.

How should a solutions architect address this issue?

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Prevent the developers from attaching any policies and assign all IAM duties to the security operations team.

Set an IAM permissions boundary on the developer IAM role that explicitly denies attaching the administrator policy.



Question was not answered

59. 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?

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

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



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

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

Question was not answered

60. A gaming company has multiple Amazon EC2 instances in a single Availability Zone for its multiplayer game that communicates with users on

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two.)?

Increase the number of EC2 instances. ✓

Decrease the number of EC2 instances.

Configure a Network Load Balancer in front of the EC2 instances. ✓

Configure an Application Load Balancer in front of the EC2 instances.

Configure an Auto Scaling group to add or remove instances in multiple Availability Zones automatically. ✓

Question was not answered

61. A company hosts an application on multiple Amazon EC2 instances. The application processes messages from an Amazon SQS queue, writes to an Amazon RDS table and deletes the message from the queue.

Occasional duplicate records are found in the RDS table. The SQS queue does not contain any duplicate messages

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

Use the CreateQueue API call to create a new queue.

Use the AddPermission API call to add appropriate permissions,

Use the ReceiveMessage API call to set an appropriate wait time

Use the Change Message Visibility API call to increase the visibility timeout ✓

Question was not answered

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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?

Use Amazon SQS FIFO queues. 

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


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

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

Question was not answered

63. 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?

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

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

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

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

Question was not answered

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want to control who can access those keys.

What should a solutions architect use to accomplish this?

Server-Side Encryption with keys stored in an S3 bucket

Server-Side Encryption with Customer-Provided Keys (SSE-C)

Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3)

Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS) 

Question was not answered

65. An Amazon EC2 administrator created the following policy associated with an IAM group containing several users:

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```
        "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?

Users can terminate an EC2 instance in any AWS Region except us-east-1. ✓

Users can terminate an EC2 instance with the IP address 10.100.100.1 in the us-east-1 Region.

Users can terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100.100.254.

Users cannot terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100.100.254.

Question was not answered

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The application requires 50 instances 80% of the time.

Which solution should be used to minimize costs?

Purchase Reserved Instances to cover 250 instances.

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

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

Purchase Reserved Instances to cover 50 instances. Use On-Demand and Spot Instances to cover the remaining instances. ✓

Question was not answered

67. 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?

Enable read-through caching on the Amazon Aurora database.

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

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

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

Question was not answered

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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?

Use a simple scaling policy to dynamically scale the Auto Scaling group.

Use a target tracking policy to dynamically scale the Auto Scaling group. ✓

Use an AWS Lambda function to update the desired Auto Scaling group capacity.

Use scheduled scaling actions to scale up and scale down the Auto Scaling group.

Question was not answered

69. 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? (Choose two.)

Add AWS Shield. ✓

Add Aurora Replica. ✓

Add AWS Direct Connect.

Add AWS Global Accelerator.

Add an Amazon CloudFront distribution in front of the Application Load Balancer. ✓

Question was not answered

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will be available on demand. The event expected to attract a global online audience.

Which service will improve the performance of both the real-time and on-demand streaming?

Amazon CloudFront 

AWS Global Accelerator

Amazon Route 53

Amazon S3 Transfer Acceleration


Question was not answered

71. A company serves content to its subscribers across the world using an application running on AWS. The application has several Amazon C2 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?

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

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

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

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

Question was not answered


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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?

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. 

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 EB
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 EF

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.

Question was not answered

73. 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? (Choose two.)

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Configure a ClassicLink connection for the API into the client VP

Access the API using the ClassicLink address. ✓

Configure a PrivateLink connection for the API into the client VP

Access the API using the PrivateLink address.

Configure an AWS Resource Access Manager connection between the two accounts. Access the API using the private address.

Question was not answered

74. 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?

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

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

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

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

Question was not answered

75. 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

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Which solution meets these requirements'?

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.

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.

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.

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. ✓

Question was not answered

76. 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?

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

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





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

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

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