In Amazon S3, a solution architect was required to present a solution to analyze data using standard SQL queries. For this solution a serverless technology would be utilized. Identify from the following, which AWS service should the architect use?

Select the correct answer

- A. AWS Redshift
- B. AWS Athena
- C. AWS IAM
- D. AWS Kinesis

A fully managed data security and data privacy service is required by the user, which utilises machine learning and pattern matching to locate and secure the sensitive data in AWS. Which of the following AWS services will be appropriate for the user?

Select the correct answer

- A. Amazon Aurora
- B. Amazon SWF
- C. AWS Athena
- D. Amazon Macie

For instance, there is a sender component A and a receiver component B. Now B is receiving messages from A at a higher rate than the processing capacity of B. This leads to a significant problem of losing messages in transition. Suggest the best design option to prevent messages from getting lost.

A. Store the messages on Amazon S3
B. Store the messages in an SQS queue
C. Push the messages to SNS
D. Restore the messages from EBS snapshots
Which of the following helps the users maintain the application's availability and permits them to automatically include or exclude EC2 instances according to the circumstances prescribed by them?
Select the correct answer
A. Auto Scaling
B. Elastic Load Balancer
C. CloudFormation
D. Elastic Beanstalk
Which of the following templates will assist the users to quickly employ a completely operational environment for various enterprise software applications?
Select the correct answer
A. AWS Shield
B. AWS WAF
C. AWS IAM
D. AWS CloudFormation

A VPC peering connection is a networking connection between two VPCs that enables the user to route traffic between them using private IPv4 or IPv6 addresses. Select the correct answer A. TRUE B. FALSE Identify the appropriate routing policy for the users who desire to utilize a routing policy to route internet traffic to the resources based on the location of the users. Select the correct answer A. Simple routing policy B. Failover routing policy C. Geolocation routing policy D. Geoproximity routing policy Identify the appropriate routing policy for the users who desire to utilize a routing policy to route internet traffic to the resources based on the location of the users. Select the correct answer A. Simple routing policy B. Failover routing policy C. Geolocation routing policy D. Geoproximity routing policy

A user is developing an application that will assemble information on user experience. Large quantities of data are being consumed by this application rapidly, and a very low latency is required. Identify a suitable database which would be scalable without having to incur downtime.

Select the correct answer

- A. Amazon Redshift
- B. Amazon RDS with MySQL
- C. Amazon Aurora
- D. Amazon DynamoDB

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Identify which of the following will permit users to hold static websites at a low and feasible cost by making provision for a highly available hosting solution.

C. DNS Failover

A. Hosted zone B. Amazon S3 C. Route 53 D. Amazon CloudFront A user wishes to reserve data that can be utilized once or twice a year. Along with this he aspires that the storage class must be low cost, providing long-term retention and digital preservation. Identify which storage class is appropriate for the user. Select the correct answer A. Amazon S3 Standard B. Amazon S3 Intelligent-Tiering C. Amazon S3 Glacier D. Amazon S3 Glacier Deep Archive Without revealing the DNS data to the public internet, the user aspires to maintain and supervise custom domain names for the internal AWS resources. Identify which of the following features of Route 53 will aid the user in performing this task. Select the correct answer A. Geo DNS B. Private DNS for Amazon VPC

D. Domain Registration
Without revealing the DNS data to the public internet, the user aspires to maintain and supervise custom domain names for the internal AWS resources. Identify which of the following features of Route 53 will aid the user in performing this task.
Select the correct answer
A. Geo DNS
B. Private DNS for Amazon VPC
C. DNS Failover
D. Domain Registration
AWS VPN stands for
Select the correct answer
A. Virtual Private Network
B. Virtual Public Network
C. Virtual Private Node
D. None of the above

A company employs Reserved Instances in order to operate its data processing workloads. It takes 7 hours to run and must be completed within a 10-hour time window. The company predicts a short-term increment in demand during the closing of each month, which will result in the job exceeding the time limit with the capacity of the current resources. Once started, the processing job cannot be interrupted before execution. Thus, the company is seeking a solution that would permit it to supply increased capacity in a cost-effective manner. Identify the means through which a solutions architect can accomplish this.

Select the correct answer

- A. Deploy Spot Instances during periods of high demand
- B. Deploy On-Demand Instances during periods of high demand
- C. Increase the instance size of the instances in the Amazon EC2 reservation to support the increased workload
- D. Create a second Amazon EC2 reservation for additional instances

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A user desires a container for records, which will be inclusive of information on
routing traffic for a domain as well as all of its subdomains. Identify the container
that will fulfill this requirement of the user.
Select the correct answer
A. Name servers
B. Alias record
C. Hosted zone
D. DNS record
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Identify the facility that is being provided by the Multivalue answer routing policy.

Select the correct answer

A. Routes traffic based on the location of the resources

B. Routes internet traffic to a single resource

C. Configures active-passive failover

D. Checks the health of each resource

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A user is capable of starting with a single node that is 160 GB in size when an Amazon service is being launched. In addition to this, a user can add supplementary nodes in order to take advantage of huge parallel processing, and they must be functional in multimode. Determine which Amazon service is appropriate for the user.

Select the correct answer

A. Amazon DynamoDB

B. Amazon Aurora
C. Amazon Redshift
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Select the correct answer
A. Amazon DynamoDB
B. Amazon Aurora
C. Amazon Redshift
D. Amazon Athena
gives security and safeguards applications that are running on AWS.
Select the correct answer
A. AWS WAF
B. AWS Shield
C. AWS KMS
D. AWS SNS

AWS	solutions establish secure connections between the user?s
on-prer	mises networks, remote offices, client devices, and the AWS global network.
Select th	ne correct answer
A. VPC	
B. EC2	
C. VPN	
D. All of th	ne bove
	line which Amazon S3 feature(s) will assist the user in storing data in a long-lasting, and low-cost storage class where he only needs to access it onally.
Select th	ne correct answer
A. Amazo	n S3 Glacier
B. Amazoi	n S3 Glacier Deep Archive
C. Amazo	n S3 One Zone-Infrequent Access
D. Amazoi	n S3 Standard-Infrequent Access
	networking service paces up the dispersal of static as well as dynamic web t with the help of a worldwide network of edge locations that supply low
latency	along with high performance.
Select th	ne correct answer
A. Amazo	n API Gateway

B. Amazon VPC
C. Amazon Route 53
D. Amazon CloudFront
Identify which of the following is an Elastic Beanstalk concept?
Select the correct answer
A. Templates
B. Application version
C. Aliases
D. Grant tokens
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A user desires an AWS service which permits rapid and simple movement of huge

amounts of data online between on-premises storage and Amazon S3, Amazon EFS,

or Amazon FSx for Windows File Server. Identify the most suitable AWS services that will fulfill this requirement for the user.
Select the correct answer
A. AWS Transfer Family
B. AWS Snow Family
C. AWS Storage Gateway
D. AWS DataSync
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A. AWS Transfer Family
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D. AWS DataSync
terminologies in AWS IAM is a combination of permissions that explains the actions that are licensed or forbidden for an AWS entity.
Select the correct answer

A. IAM role

- B. IAM policy
- C. IAM group
- D. IAM user

What are the benefits of Auto Scaling?

Select the correct answer

- A. Increased application availability
- B. Better fault tolerance
- C. Lower costs
- D. All of the above

A user has employed a three-tier web application in a VPC with a CIDR block of 10. 0. 0.0/28. In the beginning, he incorporated two web servers, two application servers, two database servers, and one NAT instance for a total of seven EC2 instances. The web application and database servers are established across two Availability Zones (AZs). In addition to this, he also utilized an ELB in front of the web servers and used Route53 for DNS web service. The traffic incremented circumspectly during the first few days following the development, so the user tried to double the number of instances in each tier of the application so as to operate and manage the new load. Unfortunately, some of these new instances failed to launch. Identify the root cause of this failure. Select all that apply.

Select the correct answer

A. AWS reserves one IP address in each subnet CIDR block for Route53, so you don't have enough addresses left to launch all the new EC2 instances.

- B. AWS reserves the first four and the last IP addresses in each subnet CIDR block, so you don't have enough addresses left to launch all the new EC2 instances.
- C. The ELB has scaled-up, adding more instances to handle the increased traffic and reducing the number of available private IP addresses that can be assigned to the new instances.
- D. Both B & C

A user's website is providing on-demand training videos to his workforce. On a monthly basis, high-resolution MP4 format-based videos are uploaded. The workforce is distributed universally. They often travel and utilize company-provided tablets that need the HTTP Live Streaming (HLS) protocol in order to watch videos. The company lacks video transcoding expertise and, if required, might have to pay for a consultant. Identify the means wherein you can implement the most cost-efficient architecture without compromising the high availability and quality of video delivery.

- A. Transcode original high-resolution MP4 videos to HLS using an Elastic Transcoder, S3 to host videos with Lifecycle Management and archive original files to Glacier after a few days, and CloudFront to retrieve HLS transcoded videos from S3.
- B. Use a video transcoding pipeline running on EC2 using SQS to distribute tasks and Auto Scaling to adjust the number of nodes depending on the length of the queue. S3 will be able to host videos with Lifecycle Management to archive all files to Glacier after a few days, and CloudFront will serve HLS transcoded videos for Glacier.
- C. Use an Elastic Transcoder to transcode original high-resolution MP4 videos to HLS, EBS volumes to host videos and EBS snapshots to incrementally backup original rules after a few days, and CloudFront to serve HLS transcoded videos from EC2.
- D. Use an EC2 video transcoding pipeline with SQS to distribute tasks and Auto Scaling to adjust the number of nodes based on queue length, EBS volumes to host videos and EBS snapshots to incrementally backup original files after a few days, and CloudFront to serve HLS transcoded videos from EC2.

A user is required to design a photo-sharing mobile app. This application will incorporate all the pictures into a single Amazon S3 bucket. Users will be able to upload pictures from their mobile devices directly to Amazon S3. Furthermore, they will be provided with the facility to view and download their pictures directly from Amazon S3. A user wants to construct a security system to manage millions of users in the most secure form. What will be done by the user's server-side application when a new user enrolls in the photo-sharing mobile application?

Select the correct answer

A. Create a set of long-term credentials with appropriate permissions using the AWS security token service, store these credentials in the mobile app, and use them to access Amazon S3.

- B. Document the user's information in Amazon RDS and establish a role in IAM with appropriate permissions. Store these credentials in the mobile app and use them to access Amazon S3, and then, by using the AWS security token service "Assume Role" function, store these credentials in the mobile app memory, use them to access Amazon S3, and generate new credentials the next time the user runs the mobile app.
- C. Document the user's information in Amazon DynamoDB. When the user uses his or her mobile app, it creates temporary credentials using the AWS security token service with appropriate permissions. Store these credentials in the mobile app memory, use them to access Amazon S3, and generate new credentials the next time the user runs the mobile app.
- D. Create an IAM user and assign appropriate permissions to the IAM user. Generate an access key for the IAM user, store it in the mobile app, and use the credentials to access Amazon S3.

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- D. Create an IAM user and assign appropriate permissions to the IAM user. Generate an access key for the IAM user, store it in the mobile app, and use the credentials to access Amazon S3.

During the creation of an EC2 instance, a section of the data is generated, which is kept in the root device. One of your colleagues accidentally ends this instance. In what manner will this affect the data or the root device?

Select the correct answer

- A. As soon as the instance is terminated, data will be copied to S3.
- B. As soon as the instance is terminated, data will be copied to EBS.
- C. As soon as the instance is ceased, all data will be eradicated.
- D. It remains as it is until you delete it.

While going through an Auto Scaling events for an application, a user observed that the application was scaling up and down numerous times within the same hour.

Determine the design choice(s) that will assist the user in optimizing cost while maintaining elasticity.

Select the correct answer

- A. Terminate your oldest instances by modifying the Auto Scaling group termination policy
- B. Terminate your newest instances by modifying the Auto Scaling group termination policy
- C. Modify the Auto Scaling policy to use scheduled scaling actions
- D. Alter and redesign the Auto Scaling group cool-down timers and the Amazon CloudWatch alarm period that triggers the Auto Scaling scale down policy

Can Amazon EC2 Auto Scaling determine the health of an instance?

Select the correct answer

A. TRUE

B. FALSE

A user possesses a VPC that is built in a single region. At the moment, it requires two AZs. In this VPC, the user has employed a very significant two-tier web application. The web application utilizes ELB and auto scaling. Further, the application relies on synchronous replication, which needs very low latency connectivity to the database. The application is required to remain completely accessible even if any one of the application's AZs goes down and Auto Scaling cannot launch new instances in the remaining AZs. What measures can be adopted to enhance the current architecture so as to ensure this?

A. Employ the web application into three Availability Zones and set Auto Scaling policy to handle 50 percent peak load

B. Deploy the web application into two Availability Zones using a round-robin DNS and set the Auto Scaling policy set for 100 percent peak load per region

C. Deploy the web application into three Availability Zones and set Auto Scaling policy to handle 20 percent peak load

D. Deploy web application into two Availability Zones using weighted round-robin DNS and set Auto Scaling policy to handle 50 percent peak load per region

A user possesses five offices, and all the information concerning the employees is kept under AWS VPC instances. Now, all the offices wish to associate the instances in the VPC using a VPN. Identifying the most suitable option will assist the user in implementing this. Select all that apply.

Select the correct answer

A. User can have redundant customer gateways between your data center and your VPC.

B. User can have numerous locations attached to the AWS VPN CloudHub.

C. You have to define five different static IP addresses in the route table.

D. Both A & B

A user owns a website called www.abc.com, composed with Auto Scaling to manage load at its peak. Identify the CloudWatch metrics which will assist the user to get the metrics about Auto Scaling instances with a per-minute reporting?

Select the correct answer

A. Detailed monitoring

B. Basic monitoring

- C. Dynamic Auto Scaling
- D. Both A & B

A lot of archived logs are being stored on a user's website that have to be secured for regulatory reasons. He has decided to go with Amazon Glacier for data archiving. How will he give a justification for his choice to the team? Select all that apply.

Select the correct answer

- A. Amazon Glacier is good for infrequently accessed data.
- B. Amazon Glacier is good for data archives.
- C. Amazon Glacier is good for active database storage.
- D. Both A & B

A user is given a task to move a legacy application from a virtual machine running inside his data center to an Amazon VPC. Alas, this app needs access to various on-premise services, and no one who has configured the app still works for your company. There is no relevant documentation to refer to, which further complicates the matter. Identify the actions that would be taken to permit the application running inside the VPC to reach back and access its internal dependencies without being reconfigured. Select all that apply.

- A. An AWS Direct Connect connection between the VPC and the network, which houses the internal services
- B. A VM import of the current virtual machine
- C. An IP address space that does not conflict with the on-premise IP address

D. All of the above	ve
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Amazon EC2 Auto Scaling helps users maintain application availability.

Select the correct answer

- A. TRUE
- B. FALSE

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What should a user do if he aspires to initiate Amazon Elastic Compute Cloud (EC2) instances and provide each instance with a predetermined private IP address?

Select the correct answer

- A. Assign a group or sequential Elastic IP address to the instances
- B. Launch the instances in a Placement Group
- C. Launch the instances in the Amazon Virtual Private Cloud (VPC)
- D. Use standard EC2 instances since each instance gets a private Domain Name Service (DNS)

ElastiCache Memcached is used by a user to gather session state and cache database queries in his infrastructure. He observed that the Evictions and GetMisses

in CloudWatchare both really high. Identify the actions to be taken in order to rectify this.

Select the correct answer

- A. Increase the number of nodes in your cluster
- B. Increase the size of the nodes in the cluster
- C. Shrink the number of nodes in your cluster
- D. Both A & B

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A user is operating a database on an EC2 instance, with the data collected on Elastic Block Store (EBS) for resolution. Several times during the day, user observes massive variance in the response times of the database queries. Looking into the instance with the alienate command, he notice a lot of wait time on the disk volume that the database's data is secured on. Identify the two ways that will help to improve the performance of the database's storage while perserving the current persistence of the data?

- A. Moving to an SSD backed instance
- B. Moving the database to an EBS-Optimized instance
- C. Using provisioned IOPs EBS
- D. Both B & C

A user's EC2-based Multi-tier application is inclusive of a monitoring instance that regularly makes application level requests of many application components. If any of those fails more than thrice in 30 seconds, it results in CloudWatch firing an alarm. Hence, the user also needs to observe the watcher and be alerted if it becomes unhealthy. Identify a simple way to achieve this goal.

Select the correct answer

A. Run a second monitoring instance that pings the primary monitoring instance and generates a CloudWatch alarm informing your operations team that the primary monitoring instance has become unhealthy.

- B. Create a CloudWatch alarm based on the EC2 system where instance status checks are performed, and have the alarm notify your operations team if a problem with the monitoring instance is detected.
- C. Set a CloudWatch alarm based on the CPU utilization of the monitoring instance and have the alarm notify your operations team if the CPU usage exceeds 50% for more than one minute.
- D. Have the monitoring instances post messages to the SOS queue and then dequeue those messages on another instance. The queue should cease to have new messages.

\_\_\_\_\_ helps to establish private connectivity between AWS and the data center, office, or colocation environment.

Select the correct answer

- A. AWS Public Connect
- B. AWS Direct Connect
- C. AWS Direct Connector
- D. None of the above

From the following, identify the use cases of VPN connections:

- A. Easily access applications in the cloud or on-premises
- B. Easily deploy and remove VPN access for temporary workers
- C. Quickly scale remote access
- D. All of the above

The user possesses a web application leveraging an Elastic Load Balancer (ELB) in front of the web servers employed using an Auto Scaling Group. The database operates on the Relational Database Service (RDS). The application provides technical articles as well as replies to them. Generally, the number of views is greater than the number of responses to the article. Occasionally, when an article on the site gains massive popularity, it results in a significant traffic increment that further leads to the site going down. What are the measures to be taken in order to help alleviate the pressure on the infrastructure while maintaining availability during these events? (Choose three options).

Select the correct answer

- A. Leverage CloudFront for the delivery of the articles
- B. Add RDS read-replicas for the read traffic going to your relational database
- C. Leverage ElastiCache for caching the most frequently used data
- D. All of the above

An application that is being managed by a user has EC2 instances and DynamoDB tables incorporated into several AWS regions. In order to supervise the performance of the application universally, two graphs would be referred to by the user: 1) CPU

utilization average across all EC2 instances 2) The total number of throttled requests for all DynamoDB tables. Through which means can this be accomplished?

Select the correct answer

- A. Tag your resources with the application name, and select the tag name as the dimension in the CloudWatch Management console to view the respective graphs
- B. Use the CloudWatch CLI tools to pull the respective metrics from each regional endpoint, aggregate the data offline, and store it for graphing in CloudWatch
- C. Place SNMP traps on every instance and DynamoDB table, use a centralised monitoring server to collect data from every instance, and then save the aggregate data in CloudWatch for graphing
- D. Add a CloudWatch agent to each instance and attach one to each DynamoDB table

A VPC with a CIDR of 20.0.0.0/24 is being created by a user. A public subnet with CIDR 20.0.0.0/25 is being established by the user. The user is attempting to create a private subnet with CIDR 20.0.0.128/25. Identify which of the following statements is true in this scenario.

Select the correct answer

- A. It will not allow the user to create the private subnet due to a CIDR overlap.
- B. It will allow the user to create a private subnet with a CIDR of 20.0.0.128/25.
- C. This statement is wrong as AWS does not allow a CIDR of 20.0.0.0/25.
- D. It will not allow the user to create a private subnet due to a wrong CIDR range

An S3 bucket is being generated by a user who is not publicly reachable. The bucket contains thirty objects, which are also private. How can he make the objects public with minimal effort?

A. The user should select all objects from the console and apply a single policy to mark them public.

- B. The user can write a program that programmatically makes all objects public using the S3 SDK.
- C. Set the AWS bucket policy which marks all objects as public
- D. Make the bucket ACL public, so it will also mark all objects as public.

An application on AWS is being maintained by a sys admin. The application is positioned on EC2 and the user has configured ELB and Auto Scaling. Taking the future load increment under consideration, the user has decided to launch new servers proactively so that they get enrolled with ELB. Identify the means through which the user will acquire the ability to add these instances with Auto Scaling.

Select the correct answer

- A. Increase the desired capacity of the Auto Scaling group
- B. Increase the maximum limit of the Auto Scaling group
- C. Launch an instance manually and register it with ELB on the fly
- D. Decrease the minimum limit of the Auto Scaling group

What are the benefits of a VPN connection?

- A. Elastic
- B. Advanced authentication

D. None of the above What are the benefits of a VPN connection? Select the correct answer A. Elastic B. Advanced authentication C. Both A and B D. None of the above An organization with the AWS account ID: 999988887777 has generated 50 IAM users. Cloudacademy(group) is inclusive of all the users. If each IAM user is entitled to log in with the AWS console, then identify the AWS login URL that will be utilized by the IAM users. Select the correct answer A. https:// 999988887777.signin.aws.amazon.com/console/

B. https://signin.aws.amazon.com/simplilearn//

D. https://999988887777.aws.amazon.com/simplilearn//

C. https://simplilearn.signin.aws.amazon.com/999988887777/console/

C. Both A and B

A user has built a link draining with ELB to permit in-flight requests in order to pursue while the instance is being unsubscribed with the help of Auto Scaling. If the draining time is not mentioned by the user, how long will ELB allow in-flight request traffic to continue?

- A. 600 seconds
- B. 3600 seconds
- C. 300 seconds
- D. 0 seconds