**AWS Certified Solutions Architect Associate Practice Test 3 - Results**

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Attempt 1

All knowledge areas

All questions

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Question 1: Skipped

A document sharing website is using AWS as its cloud infrastructure. Free users can upload a total of 5 GB data while premium users can upload as much as 5 TB. Their application uploads the user files, which can have a max file size of 1 TB, to an S3 Bucket.

In this scenario, what is the best way for the application to upload the large files in S3?

* ​

Use AWS Snowball

* ​

Use Multipart Upload

**(Correct)**

* ​

Use a single PUT request to upload the large file

* ​

Use AWS Import/Export

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Question 2: Skipped

In Amazon EC2, you can manage your instances from the moment you launch them up to their termination. You can flexibly control your computing costs by changing the EC2 instance state. Which of the following statements is true regarding EC2 billing? (Select TWO.)

* ​

You will be billed when your On-Demand instance is preparing to hibernate with a stopping state.

**(Correct)**

* ​

You will be billed when your On-Demand instance is in pending state.

* ​

You will not be billed for any instance usage while an instance is not in the running state.

* ​

You will be billed when your Spot instance is preparing to stop with a stopping state.

* ​

You will be billed when your Reserved instance is in terminated state.

**(Correct)**

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Question 3: Skipped

An investment bank is working with an IT team to handle the launch of the new digital wallet system. The applications will run on multiple EBS-backed EC2 instances which will store the logs, transactions, and billing statements of the user in an S3 bucket. Due to tight security and compliance requirements, the IT team is exploring options on how to safely store sensitive data on the EBS volumes and S3.

Which of the below options should be carried out when storing sensitive data on AWS? (Select TWO.)

* ​

Enable EBS Encryption

**(Correct)**

* ​

Enable Amazon S3 Server-Side or use Client-Side Encryption

**(Correct)**

* ​

Migrate the EC2 instances from the public to private subnet.

* ​

Use AWS Shield and WAF

* ​

Create an EBS Snapshot

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Question 4: Skipped

A company needs to collect gigabytes of data per second from websites and social media feeds to gain insights on its product offerings and continuously improve the user experience. To meet this design requirement, you have developed an application hosted on an Auto Scaling group of Spot EC2 instances which processes the data and stores the results to DynamoDB and Redshift. The solution should have a built-in enhanced fan-out feature.

Which fully-managed AWS service can you use to collect and process large streams of data records in real-time with the LEAST amount of administrative overhead?

* ​

Amazon Redshift with AWS Cloud Development Kit (AWS CDK)

* ​

Amazon Kinesis Data Streams

**(Correct)**

* ​

Amazon S3 Access Points

* ​

Amazon Managed Streaming for Apache Kafka (Amazon MSK)

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Question 5: Skipped

A tech startup is launching an on-demand food delivery platform using Amazon ECS cluster with an AWS Fargate serverless compute engine and Amazon Aurora. It is expected that the database read queries will significantly increase in the coming weeks ahead. A Solutions Architect recently launched two Read Replicas to the database cluster to improve the platform's scalability.

Which of the following is the MOST suitable configuration that the Architect should implement to load balance all of the incoming read requests equally to the two Read Replicas?

* ​

Create a new Network Load Balancer to evenly distribute the read queries to the Read Replicas of the Amazon Aurora database.

* ​

Enable Amazon Aurora Parallel Query.

* ​

Use the built-in Reader endpoint of the Amazon Aurora database.

**(Correct)**

* ​

Use the built-in Cluster endpoint of the Amazon Aurora database.

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Question 6: Skipped

A large financial firm in the country has an AWS environment that contains several Reserved EC2 instances hosting a web application that has been decommissioned last week. To save costs, you need to stop incurring charges for the Reserved instances as soon as possible.

What cost-effective steps will you take in this circumstance? (Select TWO.)

* ​

Go to the Amazon.com online shopping website and sell the Reserved instances.

* ​

Terminate the Reserved instances as soon as possible to avoid getting billed at the on-demand price when it expires.

**(Correct)**

* ​

Contact AWS to cancel your AWS subscription.

* ​

Stop the Reserved instances as soon as possible.

* ​

Go to the AWS Reserved Instance Marketplace and sell the Reserved instances.

**(Correct)**

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Question 7: Skipped

A company is storing its financial reports and regulatory documents in an Amazon S3 bucket. To comply with the IT audit, they tasked their Solutions Architect to track all new objects added to the bucket as well as the removed ones. It should also track whether a versioned object is permanently deleted. The Architect must configure Amazon S3 to publish notifications for these events to a queue for post-processing and to an Amazon SNS topic that will notify the Operations team.

Which of the following is the MOST suitable solution that the Architect should implement?

* ​

Create a new Amazon SNS topic and Amazon MQ. Add an S3 event notification configuration on the bucket to publish s3:ObjectCreated:\* and ObjectRemoved:DeleteMarkerCreated event types to SQS and SNS.

* ​

Create a new Amazon SNS topic and Amazon SQS queue. Add an S3 event notification configuration on the bucket to publish s3:ObjectCreated:\* and ObjectRemoved:DeleteMarkerCreated event types to SQS and SNS.

* ​

Create a new Amazon SNS topic and Amazon SQS queue. Add an S3 event notification configuration on the bucket to publish s3:ObjectCreated:\* and s3:ObjectRemoved:Delete event types to SQS and SNS.

**(Correct)**

* ​

Create a new Amazon SNS topic and Amazon MQ. Add an S3 event notification configuration on the bucket to publish s3:ObjectAdded:\* and s3:ObjectRemoved:\* event types to SQS and SNS.

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Question 8: Skipped

A company has a decoupled application in AWS using EC2, Auto Scaling group, S3, and SQS. The Solutions Architect designed the architecture in such a way that the EC2 instances will consume the message from the SQS queue and will automatically scale up or down based on the number of messages in the queue.

In this scenario, which of the following statements is false about SQS?

* ​

FIFO queues provide exactly-once processing.

* ​

Standard queues provide at-least-once delivery, which means that each message is delivered at least once.

* ​

Standard queues preserve the order of messages.

**(Correct)**

* ​

Amazon SQS can help you build a distributed application with decoupled components.

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Question 9: Skipped

An on-premises server is using an SMB network file share to store application data. The application produces around 50 MB of data per day but it only needs to access some of it for daily processes. To save on storage costs, the company plans to copy all the application data to AWS, however, they want to retain the ability to retrieve data with the same low-latency access as the local file share. The company does not have the capacity to develop the needed tool for this operation.

Which AWS service should the company use?

* ​

AWS Storage Gateway

**(Correct)**

* ​

AWS Virtual Private Network (VPN)

* ​

Amazon FSx for Windows File Server

* ​

AWS Snowball Edge

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Question 10: Skipped

A company has established a dedicated network connection from its on-premises data center to AWS Cloud using AWS Direct Connect (DX). The core network services, such as the Domain Name System (DNS) service and Active Directory services, are all hosted on-premises. The company has new AWS accounts that will also require consistent and dedicated access to these network services.

Which of the following can satisfy this requirement with the LEAST amount of operational overhead and in a cost-effective manner?

* ​

Create a new Direct Connect gateway and integrate it with the existing Direct Connect connection. Set up a Transit Gateway between AWS accounts and associate it with the Direct Connect gateway.

**(Correct)**

* ​

Set up a new Direct Connect gateway and integrate it with the existing Direct Connect connection. Configure a VPC peering connection between AWS accounts and associate it with Direct Connect gateway.

* ​

Set up another Direct Connect connection for each and every new AWS account that will be added.

* ​

Create a new AWS VPN CloudHub. Set up a Virtual Private Network (VPN) connection for additional AWS accounts.

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Question 11: Skipped

A Solutions Architect for a global news company is configuring a fleet of EC2 instances in a subnet that currently is in a VPC with an Internet gateway attached. All of these EC2 instances can be accessed from the Internet. The architect launches another subnet and deploys an EC2 instance in it, however, the architect is not able to access the EC2 instance from the Internet.

What could be the possible reasons for this issue? (Select TWO.)

* ​

The Amazon EC2 instance does not have an attached Elastic Fabric Adapter (EFA).

* ​

The route table is not configured properly to send traffic from the EC2 instance to the Internet through the Internet gateway.

**(Correct)**

* ​

The Amazon EC2 instance is not a member of the same Auto Scaling group.

* ​

The Amazon EC2 instance does not have a public IP address associated with it.

**(Correct)**

* ​

The route table is not configured properly to send traffic from the EC2 instance to the Internet through the customer gateway (CGW).

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Question 12: Skipped

A company currently has an Augment Reality (AR) mobile game that has a serverless backend. It is using a DynamoDB table which was launched using the AWS CLI to store all the user data and information gathered from the players and a Lambda function to pull the data from DynamoDB. The game is being used by millions of users each day to read and store data.

How would you design the application to improve its overall performance and make it more scalable while keeping the costs low? (Select TWO.)

* ​

Use AWS SSO and Cognito to authenticate users and have them directly access DynamoDB using single-sign on. Manually set the provisioned read and write capacity to a higher RCU and WCU.

* ​

Enable DynamoDB Accelerator (DAX) and ensure that the Auto Scaling is enabled and increase the maximum provisioned read and write capacity.

**(Correct)**

* ​

Since Auto Scaling is enabled by default, the provisioned read and write capacity will adjust automatically. Also enable DynamoDB Accelerator (DAX) to improve the performance from milliseconds to microseconds.

* ​

Configure CloudFront with DynamoDB as the origin; cache frequently accessed data on the client device using ElastiCache.

* ​

Use API Gateway in conjunction with Lambda and turn on the caching on frequently accessed data and enable DynamoDB global replication.

**(Correct)**

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Question 13: Skipped

A Solutions Architect is managing a company's AWS account of approximately 300 IAM users. They have a new company policy that requires changing the associated permissions of all 100 IAM users that control the access to Amazon S3 buckets.

What will the Solutions Architect do to avoid the time-consuming task of applying the policy to each user?

* ​

Create a new S3 bucket access policy with unlimited access for each IAM user.

* ​

Create a new IAM role and add each user to the IAM role.

* ​

Create a new IAM group and then add the users that require access to the S3 bucket. Afterward, apply the policy to the IAM group.

**(Correct)**

* ​

Create a new policy and apply it to multiple IAM users using a shell script.

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Question 14: Skipped

A Solutions Architect is working for a large insurance firm. To maintain compliance with HIPAA laws, all data that is backed up or stored on Amazon S3 needs to be encrypted at rest.

In this scenario, what is the best method of encryption for the data, assuming S3 is being used for storing financial-related data? (Select TWO.)

* ​

Encrypt the data using your own encryption keys then copy the data to Amazon S3 over HTTPS endpoints.

**(Correct)**

* ​

Store the data in encrypted EBS snapshots

* ​

Enable SSE on an S3 bucket to make use of AES-256 encryption

**(Correct)**

* ​

Use AWS Shield to protect your data at rest

* ​

Store the data on EBS volumes with encryption enabled instead of using Amazon S3

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Question 15: Skipped

A company plans to use a durable storage service to store on-premises database backups to the AWS cloud. To move their backup data, they need to use a service that can store and retrieve objects through standard file storage protocols for quick recovery.

Which of the following options will meet this requirement?

* ​

Use the AWS Storage Gateway file gateway to store all the backup data in Amazon S3.

**(Correct)**

* ​

Use the AWS Storage Gateway volume gateway to store the backup data and directly access it using Amazon S3 API actions.

* ​

Use Amazon EBS volumes to store all the backup data and attach it to an Amazon EC2 instance.

* ​

Use AWS Snowball Edge to directly backup the data in Amazon S3 Glacier.

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Question 16: Skipped

A startup has resources deployed on the AWS Cloud. It is now going through a set of scheduled audits by an external auditing firm for compliance.

Which of the following services available in AWS can be utilized to help ensure the right information are present for auditing purposes?

* ​

AWS CloudTrail

**(Correct)**

* ​

Amazon EC2

* ​

Amazon CloudWatch

* ​

Amazon VPC

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Question 17: Skipped

Due to the large volume of query requests, the database performance of an online reporting application significantly slowed down. The Solutions Architect is trying to convince her client to use Amazon RDS Read Replica for their application instead of setting up a Multi-AZ Deployments configuration.

What are two benefits of using Read Replicas over Multi-AZ that the Architect should point out? (Select TWO.)

* ​

Provides asynchronous replication and improves the performance of the primary database by taking read-heavy database workloads from it.

**(Correct)**

* ​

Allows both read and write operations on the read replica to complement the primary database.

* ​

It elastically scales out beyond the capacity constraints of a single DB instance for read-heavy database workloads.

**(Correct)**

* ​

It enhances the read performance of your primary database by increasing its IOPS and accelerates its query processing via AWS Global Accelerator.

* ​

Provides synchronous replication and automatic failover in the case of Availability Zone service failures.

**Additional tutorial - How do I make my RDS MySQL read replica writable?**

<https://youtu.be/j5da6d2TIPc>

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Question 18: Skipped

A Solutions Architect needs to set up a bastion host in the cheapest, most secure way. The Architect should be the only person that can access it via SSH.

Which of the following steps would satisfy this requirement?

* ​

Set up a large EC2 instance and a security group that only allows access on port 22 via your IP address

* ​

Set up a large EC2 instance and a security group that only allows access on port 22

* ​

Set up a small EC2 instance and a security group that only allows access on port 22 via your IP address

**(Correct)**

* ​

Set up a small EC2 instance and a security group that only allows access on port 22

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Question 19: Skipped

An aerospace engineering company recently adopted a hybrid cloud infrastructure with AWS. One of the Solutions Architect’s tasks is to launch a VPC with both public and private subnets for their EC2 instances as well as their database instances.

Which of the following statements are true regarding Amazon VPC subnets? (Select TWO.)

* ​

EC2 instances in a private subnet can communicate with the Internet only if they have an Elastic IP.

* ​

The allowed block size in VPC is between a /16 netmask (65,536 IP addresses) and /27 netmask (32 IP addresses).

* ​

Every subnet that you create is automatically associated with the main route table for the VPC.

**(Correct)**

* ​

Each subnet spans to 2 Availability Zones.

* ​

Each subnet maps to a single Availability Zone.

**(Correct)**

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Question 20: Skipped

A Solutions Architect is unable to connect to the newly deployed EC2 instance via SSH using a home computer. However, the Architect was able to successfully access other existing instances in the VPC without any issues.

Which of the following should the Architect check and possibly correct to restore connectivity?

* ​

Use Amazon Data Lifecycle Manager.

* ​

Configure the Network Access Control List of your VPC to permit ingress traffic over port 22 from your IP.

* ​

Configure the Security Group of the EC2 instance to permit ingress traffic over port 22 from your IP.

**(Correct)**

* ​

Configure the Security Group of the EC2 instance to permit ingress traffic over port 3389 from your IP.

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Question 21: Skipped

A new online banking platform has been re-designed to have a microservices architecture in which complex applications are decomposed into smaller, independent services. The new platform is using Docker considering that application containers are optimal for running small, decoupled services. The new solution should remove the need to provision and manage servers, let you specify and pay for resources per application, and improve security through application isolation by design.

Which of the following is the MOST suitable service to use to migrate this new platform to AWS?

* ​

Amazon EBS

* ​

Amazon EKS

* ​

Amazon EFS

* ​

AWS Fargate

**(Correct)**

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Question 22: Skipped

A company is hosting EC2 instances that are on non-production environment and processing non-priority batch loads, which can be interrupted at any time.

What is the best instance purchasing option which can be applied to your EC2 instances in this case?

* ​

Reserved Instances

* ​

Scheduled Reserved Instances

* ​

On-Demand Instances

* ​

Spot Instances

**(Correct)**

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Question 23: Skipped

A Solutions Architect is working for a large IT consulting firm. One of the clients is launching a file sharing web application in AWS which requires a durable storage service for hosting their static contents such as PDFs, Word Documents, high-resolution images, and many others.

Which type of storage service should the Architect use to meet this requirement?

* ​

Amazon RDS instance

* ​

Amazon S3

**(Correct)**

* ​

Amazon EC2 instance store

* ​

Amazon EBS volume

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Question 24: Skipped

A company needs to use Amazon Aurora as the Amazon RDS database engine of their web application. The Solutions Architect has been instructed to implement a 90-day backup retention policy.

Which of the following options can satisfy the given requirement?

* ​

Configure RDS to export the automated snapshot automatically to Amazon S3 and create a lifecycle policy to delete the object after 90 days.

* ​

Configure an automated backup and set the backup retention period to 90 days.

* ​

Create an AWS Backup plan to take daily snapshots with a retention period of 90 days.

**(Correct)**

* ​

Create a daily scheduled event using CloudWatch Events and AWS Lambda to directly download the RDS automated snapshot to an S3 bucket. Archive snapshots older than 90 days to Glacier.

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Question 25: Skipped

A FinTech startup deployed an application on an Amazon EC2 instance with attached Instance Store volumes and an Elastic IP address. The server is only accessed from 8 AM to 6 PM and can be stopped from 6 PM to 8 AM for cost efficiency using Lambda with the script that automates this based on tags.

Which of the following will occur when the EC2 instance is stopped and started? (Select TWO.)

* ​

The Elastic IP address is disassociated with the instance.

* ​

The ENI (Elastic Network Interface) is detached.

* ​

The underlying host for the instance is possibly changed.

**(Correct)**

* ​

There will be no changes.

* ​

All data on the attached instance-store devices will be lost.

**(Correct)**

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Question 26: Skipped

A travel company has a suite of web applications hosted in an Auto Scaling group of On-Demand EC2 instances behind an Application Load Balancer that handles traffic from various web domains such as i-love-manila.com, i-love-boracay.com, i-love-cebu.com and many others. To improve security and lessen the overall cost, you are instructed to secure the system by allowing multiple domains to serve SSL traffic without the need to reauthenticate and reprovision your certificate everytime you add a new domain. This migration from HTTP to HTTPS will help improve their SEO and Google search ranking.

Which of the following is the most cost-effective solution to meet the above requirement?

* ​

Create a new CloudFront web distribution and configure it to serve HTTPS requests using dedicated IP addresses in order to associate your alternate domain names with a dedicated IP address in each CloudFront edge location.

* ​

Upload all SSL certificates of the domains in the ALB using the console and bind multiple certificates to the same secure listener on your load balancer. ALB will automatically choose the optimal TLS certificate for each client using Server Name Indication (SNI).

**(Correct)**

* ​

Add a Subject Alternative Name (SAN) for each additional domain to your certificate.

* ​

Use a wildcard certificate to handle multiple sub-domains and different domains.

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Question 27: Skipped

A company has an existing VPC which is quite unutilized for the past few months. The Business Manager instructed the Solutions Architect to integrate the company’s on-premises data center and its VPC. The architect explained the list of tasks that he’ll be doing and discussed the Virtual Private Network (VPN) connection. The Business Manager is not tech-savvy but he is interested to know what a VPN is and its benefits.

What is one of the major advantages of having a VPN in AWS?

* ​

It provides a networking connection between two VPCs which enables you to route traffic between them using private IPv4 addresses or IPv6 addresses.

* ​

It enables you to establish a private and dedicated network connection between your network and your VPC

* ​

It provides a cost-effective, hybrid connection from your VPC to your on-premises data centers which bypasses the public Internet.

* ​

It allows you to connect your AWS cloud resources to your on-premises data center using secure and private sessions with IP Security (IPSec) or Transport Layer Security (TLS) tunnels.

**(Correct)**

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Question 28: Skipped

**A tech company is currently using Auto Scaling for their web application. A new AMI now needs to be used for launching a fleet of EC2 instances.  
  
Which of the following changes needs to be done?**

* ​

Do nothing. You can start directly launching EC2 instances in the Auto Scaling group with the same launch configuration.

* ​

Create a new target group.

* ​

Create a new launch configuration.

**(Correct)**

* ​

Create a new target group and launch configuration.

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Question 29: Skipped

A large telecommunications company needs to run analytics against all combined log files from the Application Load Balancer as part of the regulatory requirements.

Which AWS services can be used together to collect logs and then easily perform log analysis?

* ​

Amazon S3 for storing ELB log files and Amazon EMR for analyzing the log files.

**(Correct)**

* ​

Amazon S3 for storing the ELB log files and an EC2 instance for analyzing the log files using a custom-built application.

* ​

Amazon EC2 with EBS volumes for storing and analyzing the log files.

* ​

Amazon DynamoDB for storing and EC2 for analyzing the logs.

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Question 30: Skipped

A company has a web application that is relying entirely on slower disk-based databases, causing it to perform slowly. To improve its performance, the Solutions Architect integrated an in-memory data store to the web application using ElastiCache.

How does Amazon ElastiCache improve database performance?

* ​

It provides an in-memory cache that delivers up to 10x performance improvement from milliseconds to microseconds or even at millions of requests per second.

* ​

It reduces the load on your database by routing read queries from your applications to the Read Replica.

* ​

It securely delivers data to customers globally with low latency and high transfer speeds.

* ​

By caching database query results.

**(Correct)**

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Question 31: Skipped

A company has clients all across the globe that access product files stored in several S3 buckets, which are behind each of their own CloudFront web distributions. They currently want to deliver their content to a specific client, and they need to make sure that only that client can access the data. Currently, all of their clients can access their S3 buckets directly using an S3 URL or through their CloudFront distribution. The Solutions Architect must serve the private content via CloudFront only, to secure the distribution of files.

Which combination of actions should the Architect implement to meet the above requirements? (Select TWO.)

* ​

Use S3 pre-signed URLs to ensure that only their client can access the files. Remove permission to use Amazon S3 URLs to read the files for anyone else.

* ​

Use AWS Cloud Map to ensure that only their client can access the files.

* ​

Restrict access to files in the origin by creating an origin access identity (OAI) and give it permission to read the files in the bucket.

**(Correct)**

* ​

Require the users to access the private content by using special CloudFront signed URLs or signed cookies.

**(Correct)**

* ​

Use AWS App Mesh to ensure that only their client can access the files.

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Question 32: Skipped

A global online sports betting company has its popular web application hosted in AWS. They are planning to develop a new online portal for their new business venture and they hired you to implement the cloud architecture for a new online portal that will accept bets globally for world sports. You started to design the system with a relational database that runs on a single EC2 instance, which requires a single EBS volume that can support up to 30,000 IOPS.

In this scenario, which Amazon EBS volume type can you use that will meet the performance requirements of this new online portal?

* ​

EBS Provisioned IOPS SSD (io1)

**(Correct)**

* ​

EBS General Purpose SSD (gp2)

* ​

EBS Cold HDD (sc1)

* ​

EBS Throughput Optimized HDD (st1)

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Question 33: Skipped

A solutions architect is formulating a strategy for a startup that needs to transfer 50 TB of on-premises data to Amazon S3. The startup has a slow network transfer speed between its data center and AWS which causes a bottleneck for data migration.

Which of the following should the solutions architect implement?

* ​

Deploy an AWS Migration Hub Discovery agent in the on-premises data center.

* ​

Integrate AWS Storage Gateway File Gateway with the on-premises data center.

* ​

Request an Import Job to Amazon S3 using a Snowball device in the AWS Snowball Console.

**(Correct)**

* ​

Enable Amazon S3 Transfer Acceleration on the target S3 bucket.

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Question 34: Skipped

A company is hosting an application on EC2 instances that regularly pushes and fetches data in Amazon S3. Due to a change in compliance, the instances need to be moved on a private subnet. Along with this change, the company wants to lower the data transfer costs by configuring its AWS resources.

How can this be accomplished in the MOST cost-efficient manner?

* ​

Set up an AWS Transit Gateway to access Amazon S3.

* ​

Create an Amazon S3 interface endpoint to enable a connection between the instances and Amazon S3.

* ​

Set up a NAT Gateway in the public subnet to connect to Amazon S3.

* ​

Create an Amazon S3 gateway endpoint to enable a connection between the instances and Amazon S3.

**(Correct)**

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Question 35: Skipped

A company is setting up a cloud architecture for an international money transfer service to be deployed in AWS which will have thousands of users around the globe. The service should be available 24/7 to avoid any business disruption and should be resilient enough to handle the outage of an entire AWS region. To meet this requirement, the Solutions Architect has deployed their AWS resources to multiple AWS Regions. He needs to use Route 53 and configure it to set all of the resources to be available all the time as much as possible. When a resource becomes unavailable, Route 53 should detect that it's unhealthy and stop including it when responding to queries.

Which of the following is the most fault-tolerant routing configuration that the Solutions Architect should use in this scenario?

* ​

Configure an Active-Active Failover with Weighted routing policy.

**(Correct)**

* ​

Configure an Active-Passive Failover with Multiple Primary and Secondary Resources.

* ​

Configure an Active-Passive Failover with Weighted Records.

* ​

Configure an Active-Active Failover with One Primary and One Secondary Resource.

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Question 36: Skipped

A company plans to build a web architecture using On-Demand EC2 instances and a database in AWS. However, due to budget constraints, the company instructed the Solutions Architect to choose a database service in which they no longer need to worry about database management tasks such as hardware or software provisioning, setup, configuration, scaling, and backups.

Which of the following services should the Solutions Architect recommend?

* ​

Amazon DynamoDB

**(Correct)**

* ​

Amazon ElastiCache

* ​

Amazon RDS

* ​

Amazon Redshift

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Question 37: Skipped

A company installed sensors to track the number of people who visit the park. The data is sent every day to an Amazon Kinesis stream with default settings for processing, in which a consumer is configured to process the data every other day. You noticed that the S3 bucket is not receiving all of the data that is being sent to the Kinesis stream. You checked the sensors if they are properly sending the data to Amazon Kinesis and verified that the data is indeed sent every day.

What could be the reason for this?

* ​

By default, Amazon S3 stores the data for 1 day and moves it to Amazon Glacier.

* ​

By default, the data records are only accessible for 24 hours from the time they are added to a Kinesis stream.

**(Correct)**

* ​

Your AWS account was hacked and someone has deleted some data in your Kinesis stream.

* ​

There is a problem in the sensors. They probably had some intermittent connection hence, the data is not sent to the stream.

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Question 38: Skipped

A Solutions Architect is working for a financial company. The manager wants to have the ability to automatically transfer obsolete data from their S3 bucket to a low-cost storage system in AWS.

What is the best solution that the Architect can provide to them?

* ​

Use CloudEndure Migration.

* ​

Use an EC2 instance and a scheduled job to transfer the obsolete data from their S3 location to Amazon S3 Glacier.

* ​

Use Amazon SQS.

* ​

Use Lifecycle Policies in S3 to move obsolete data to Glacier.

**(Correct)**

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Question 39: Skipped

A manufacturing company has EC2 instances running in AWS. The EC2 instances are configured with Auto Scaling. There are a lot of requests being lost because of too much load on the servers. The Auto Scaling is launching new EC2 instances to take the load accordingly yet, there are still some requests that are being lost.

Which of the following is the MOST suitable solution that you should implement to avoid losing recently submitted requests?

* ​

Set up Amazon Aurora Serverless for on-demand, auto-scaling configuration of your EC2 Instances and also enable Amazon Aurora Parallel Query feature for faster analytical queries over your current data.

* ​

Use larger instances for your application with an attached Elastic Fabric Adapter (EFA).

* ​

Replace the Auto Scaling group with a cluster placement group to achieve a low-latency network performance necessary for tightly-coupled node-to-node communication.

* ​

Use an Amazon SQS queue to decouple the application components and scale-out the EC2 instances based upon the ApproximateNumberOfMessages metric in Amazon CloudWatch.

**(Correct)**

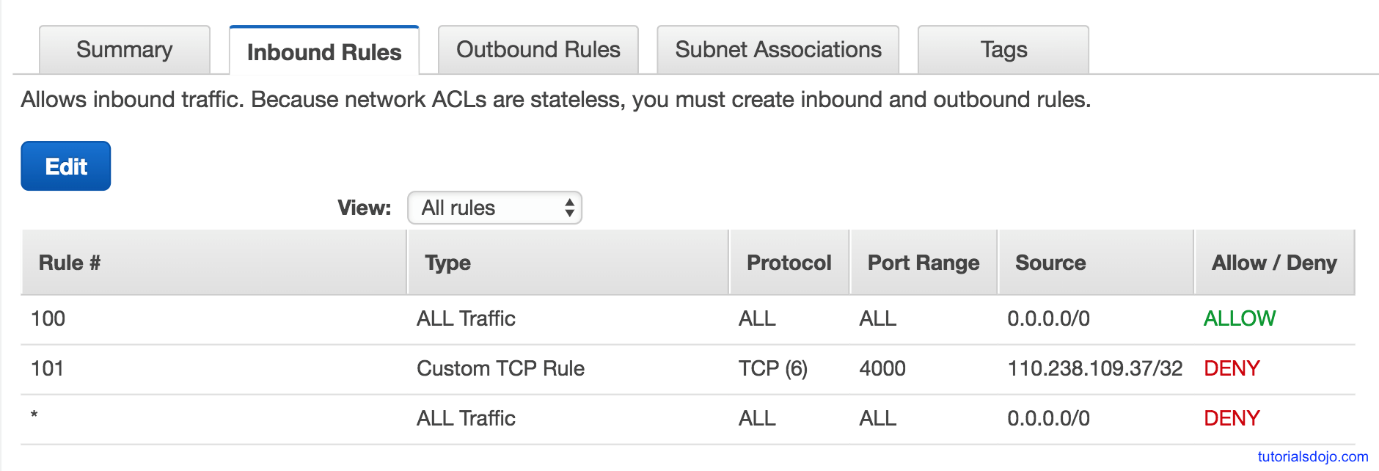
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Question 40: Skipped

A company deployed several EC2 instances in a private subnet. The Solutions Architect needs to ensure the security of all EC2 instances. Upon checking the existing Inbound Rules of the Network ACL, she saw this configuration:

[Larger image](javascript:void(0))

[[](javascript:void(0))](javascript:void(0))

If a computer with an IP address of 110.238.109.37 sends a request to the VPC, what will happen?

* ​

Initially, it will be allowed and then after a while, the connection will be denied.

* ​

It will be allowed.

**(Correct)**

* ​

It will be denied.

* ​

Initially, it will be denied and then after a while, the connection will be allowed.

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Question 41: Skipped

A Solutions Architect is designing a highly available environment for an application. She plans to host the application on EC2 instances within an Auto Scaling Group. One of the conditions requires data stored on root EBS volumes to be preserved if an instance terminates.

What should be done to satisfy the requirement?

* ​

Use AWS DataSync to replicate root volume data to Amazon S3.

* ​

Set the value of DeleteOnTermination attribute of the EBS volumes to False.

**(Correct)**

* ​

Enable the Termination Protection option for all EC2 instances.

* ​

Configure ASG to suspend the health check process for each EC2 instance.

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Question 42: Skipped

A company generates large financial datasets with millions of rows. The Solutions Architect needs to store all the data in a columnar fashion to reduce the number of disk I/O requests and reduce the amount of data needed to load from the disk. The bank has an existing third-party business intelligence application that will connect to the storage service and then generate daily and monthly financial reports for its clients around the globe.

In this scenario, which is the best storage service to use to meet the requirement?

* ​

Amazon Aurora

* ​

Amazon Redshift

**(Correct)**

* ​

Amazon DynamoDB

* ​

Amazon RDS

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Question 43: Skipped

A major TV network has a web application running on eight Amazon T3 EC2 instances. The number of requests that the application processes are consistent and do not experience spikes. To ensure that eight instances are running at all times, the Solutions Architect should create an Auto Scaling group and distribute the load evenly between all instances.

Which of the following options can satisfy the given requirements?

* ​

Deploy four EC2 instances with Auto Scaling in one region and four in another region behind an Amazon Elastic Load Balancer.

* ​

Deploy four EC2 instances with Auto Scaling in one Availability Zone and four in another availability zone in the same region behind an Amazon Elastic Load Balancer.

**(Correct)**

* ​

Deploy two EC2 instances with Auto Scaling in four regions behind an Amazon Elastic Load Balancer.

* ​

Deploy eight EC2 instances with Auto Scalingin one Availability Zone behind an Amazon Elastic Load Balancer.

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Question 44: Skipped

A data analytics company is setting up an innovative checkout-free grocery store. Their Solutions Architect developed a real-time monitoring application that uses smart sensors to collect the items that the customers are getting from the grocery’s refrigerators and shelves then automatically deduct it from their accounts. The company wants to analyze the items that are frequently being bought and store the results in S3 for durable storage to determine the purchase behavior of its customers.

What service must be used to easily capture, transform, and load streaming data into Amazon S3, Amazon Elasticsearch Service, and Splunk?

* ​

Amazon Kinesis Data Firehose

**(Correct)**

* ​

Amazon Kinesis

* ​

Amazon SQS

* ​

Amazon Redshift

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Question 45: Skipped

A media company recently launched their newly created web application. Many users tried to visit the website, but they are receiving a 503 Service Unavailable Error. The system administrator tracked the EC2 instance status and saw the capacity is reaching its maximum limit and unable to process all the requests. To gain insights from the application's data, they need to launch a real-time analytics service.

Which of the following allows you to read records in batches?

* ​

Create a Kinesis Data Firehose and use AWS Lambda to read records from the data stream.

* ​

Create an Amazon S3 bucket to store the captured data and use Amazon Athena to analyze the data.

* ​

Create a Kinesis Data Stream and use AWS Lambda to read records from the data stream.

**(Correct)**

* ​

Create an Amazon S3 bucket to store the captured data and use Amazon Redshift Spectrum to analyze the data.

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Question 46: Skipped

A Solutions Architect working for a startup is designing a High Performance Computing (HPC) application which is publicly accessible for their customers. The startup founders want to mitigate distributed denial-of-service (DDoS) attacks on their application.

Which of the following options are not suitable to be implemented in this scenario? (Select TWO.)

* ​

Add multiple Elastic Fabric Adapters (EFA) to each EC2 instance to increase the network bandwidth.

**(Correct)**

* ​

Use Dedicated EC2 instances to ensure that each instance has the maximum performance possible.

**(Correct)**

* ​

Use AWS Shield and AWS WAF.

* ​

Use an Application Load Balancer with Auto Scaling groups for your EC2 instances. Prevent direct Internet traffic to your Amazon RDS database by deploying it to a new private subnet.

* ​

Use an Amazon CloudFront service for distributing both static and dynamic content.

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Question 47: Skipped

A company plans to set up a cloud infrastructure in AWS. In the planning, it was discussed that you need to deploy two EC2 instances that should continuously run for three years. The CPU utilization of the EC2 instances is also expected to be stable and predictable.

Which is the most cost-efficient Amazon EC2 Pricing type that is most appropriate for this scenario?

* ​

Dedicated Hosts

* ​

Reserved Instances

**(Correct)**

* ​

Spot instances

* ​

On-Demand instances

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Question 48: Skipped

A company is using multiple AWS accounts that are consolidated using AWS Organizations. They want to copy several S3 objects to another S3 bucket that belonged to a different AWS account which they also own. The Solutions Architect was instructed to set up the necessary permissions for this task and to ensure that the destination account owns the copied objects and not the account it was sent from.

How can the Architect accomplish this requirement?

* ​

Enable the Requester Pays feature in the source S3 bucket. The fees would be waived through Consolidated Billing since both AWS accounts are part of AWS Organizations.

* ​

Set up cross-origin resource sharing (CORS) in S3 by creating a bucket policy that allows an IAM user or role to copy objects from the source bucket in one account to the destination bucket in the other account.

* ​

Connect the two S3 buckets from two different AWS accounts to Amazon WorkDocs. Set up cross-account access to integrate the two S3 buckets. Use the Amazon WorkDocs console to copy the objects from one account to the other with modified object ownership assigned to the destination account.

* ​

Configure cross-account permissions in S3 by creating an IAM customer-managed policy that allows an IAM user or role to copy objects from the source bucket in one account to the destination bucket in the other account. Then attach the policy to the IAM user or role that you want to use to copy objects between accounts.

**(Correct)**

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Question 49: Skipped

A Solutions Architect needs to deploy a mobile application that can collect votes for a popular singing competition. Millions of users from around the world will submit votes using their mobile phones. These votes must be collected and stored in a highly scalable and highly available data store which will be queried for real-time ranking.

Which of the following combination of services should the architect use to meet this requirement?

* ​

Amazon Redshift and AWS Mobile Hub

* ​

Amazon Relational Database Service (RDS) and Amazon MQ

* ​

Amazon DynamoDB and AWS AppSync

**(Correct)**

* ​

Amazon Aurora and Amazon Cognito

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Question 50: Skipped

A company deployed a high-performance computing (HPC) cluster that spans multiple EC2 instances across multiple Availability Zones and processes various wind simulation models. Currently, the Solutions Architect is experiencing a slowdown in their applications and upon further investigation, it was discovered that it was due to latency issues.

Which is the MOST suitable solution that the Solutions Architect should implement to provide low-latency network performance necessary for tightly-coupled node-to-node communication of the HPC cluster?

* ​

Use EC2 Dedicated Instances.

* ​

Set up a cluster placement group within a single Availability Zone in the same AWS Region.

**(Correct)**

* ​

Set up AWS Direct Connect connections across multiple Availability Zones for increased bandwidth throughput and more consistent network experience.

* ​

Set up a spread placement group across multiple Availability Zones in multiple AWS Regions.

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Question 51: Skipped

A company has a global online trading platform in which the users from all over the world regularly upload terabytes of transactional data to a centralized S3 bucket.

What AWS feature should you use in your present system to improve throughput and ensure consistently fast data transfer to the Amazon S3 bucket, regardless of your user's location?

* ​

Amazon S3 Transfer Acceleration

**(Correct)**

* ​

AWS Direct Connect

* ​

FTP

* ​

Use CloudFront Origin Access Identity

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Question 52: Skipped

The media company that you are working for has a video transcoding application running on Amazon EC2. Each EC2 instance polls a queue to find out which video should be transcoded, and then runs a transcoding process. If this process is interrupted, the video will be transcoded by another instance based on the queuing system. This application has a large backlog of videos which need to be transcoded. Your manager would like to reduce this backlog by adding more EC2 instances, however, these instances are only needed until the backlog is reduced.

In this scenario, which type of Amazon EC2 instance is the most cost-effective type to use?

* ​

Dedicated instances

* ​

On-demand instances

* ​

Spot instances

**(Correct)**

* ​

Reserved instances

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Question 53: Skipped

A company is generating confidential data that is saved on their on-premises data center. As a backup solution, the company wants to upload their data to an Amazon S3 bucket. In compliance with its internal security mandate, the encryption of the data must be done before sending it to Amazon S3. The company must spend time managing and rotating the encryption keys as well as controlling who can access those keys.

Which of the following methods can achieve this requirement? (Select TWO.)

* ​

Set up Server-Side Encryption with keys stored in a separate S3 bucket.

* ​

Set up Client-Side Encryption using a client-side master key.

**(Correct)**

* ​

Set up Server-Side Encryption (SSE) with EC2 key pair.

* ​

Set up Client-Side Encryption with Amazon S3 managed encryption keys.

* ​

Set up Client-Side Encryption with a customer master key stored in AWS Key Management Service (AWS KMS).

**(Correct)**

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Question 54: Skipped

A company is using Amazon VPC that has a CIDR block of 10.31.0.0/27< that is connected to the on-premises data center. There was a requirement to create a Lambda function that will process massive amounts of cryptocurrency transactions every minute and then store the results to EFS. After setting up the serverless architecture and connecting the Lambda function to the VPC, the Solutions Architect noticed an increase in invocation errors with EC2 error types such as EC2ThrottledException at certain times of the day.

Which of the following are the possible causes of this issue? (Select TWO.)

* ​

The associated security group of your function does not allow outbound connections.

* ​

Your VPC does not have sufficient subnet ENIs or subnet IPs.

**(Correct)**

* ​

The attached IAM execution role of your function does not have the necessary permissions to access the resources of your VPC.

* ​

Your VPC does not have a NAT gateway.

* ​

You only specified one subnet in your Lambda function configuration. That single subnet runs out of available IP addresses and there is no other subnet or Availability Zone which can handle the peak load.

**(Correct)**

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Question 55: Skipped

**You are automating the creation of EC2 instances in your VPC. Hence, you wrote a python script to trigger the Amazon EC2 API to request 50 EC2 instances in a single Availability Zone. However, you noticed that after 20 successful requests, subsequent requests failed.  
  
What could be a reason for this issue and how would you resolve it?**

* ​

There is a vCPU-based On-Demand Instance limit per region which is why subsequent requests failed. Just submit the limit increase form to AWS and retry the failed requests once approved.

**(Correct)**

* ​

By default, AWS allows you to provision a maximum of 20 instances per Availability Zone. Select a different Availability Zone and retry the failed request.

* ​

There was an issue with the Amazon EC2 API. Just resend the requests and these will be provisioned successfully.

* ​

By default, AWS allows you to provision a maximum of 20 instances per region. Select a different region and retry the failed request.

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Question 56: Skipped

A company is deploying a Microsoft SharePoint Server environment on AWS using CloudFormation. The Solutions Architect needs to install and configure the architecture that is composed of Microsoft Active Directory (AD) domain controllers, Microsoft SQL Server 2012, multiple Amazon EC2 instances to host the Microsoft SharePoint Server and many other dependencies. The Architect needs to ensure that the required components are properly running before the stack creation proceeds.

Which of the following should the Architect do to meet this requirement?

* ​

Configure the UpdateReplacePolicy attribute in the CloudFormation template. Send a success signal after the applications are installed and configured using the cfn-signal helper script.

* ​

Configure a CreationPolicy attribute to the instance in the CloudFormation template. Send a success signal after the applications are installed and configured using the cfn-signal helper script.

**(Correct)**

* ​

Configure a UpdatePolicy attribute to the instance in the CloudFormation template. Send a success signal after the applications are installed and configured using the cfn-signal helper script.

* ​

Configure the DependsOn attribute in the CloudFormation template. Send a success signal after the applications are installed and configured using the cfn-init helper script.

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Question 57: Skipped

An application needs to retrieve a subset of data from a large CSV file stored in an Amazon S3 bucket by using simple SQL expressions. The queries are made within Amazon S3 and must only return the needed data.

Which of the following actions should be taken?

* ​

Perform an S3 Select operation based on the bucket’s name.

* ​

Perform an S3 Select operation based on the bucket's name and object tags.

* ​

Perform an S3 Select operation based on the bucket's name and object's metadata.

* ​

Perform an S3 Select operation based on the bucket's name and object's key.

**(Correct)**

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Question 58: Skipped

A company hosted a web application on a Linux Amazon EC2 instance in the public subnet that uses a default network ACL. The instance uses a default security group and has an attached Elastic IP address. The network ACL has been configured to block all traffic to the instance. The Solutions Architect must allow incoming traffic on port 443 to access the application from any source.

Which combination of steps will accomplish this requirement? (Select TWO.)

* ​

In the Security Group, create a new rule to allow TCP connection on port 443 to destination 0.0.0.0/0

* ​

In the Network ACL, update the rule to allow inbound TCP connection on port 443 from source 0.0.0.0/0 and outbound TCP connection on port 32768 - 65535 to destination 0.0.0.0/0

**(Correct)**

* ​

In the Network ACL, update the rule to allow outbound TCP connection on port 32768 - 65535 to destination 0.0.0.0/0

* ​

In the Network ACL, update the rule to allow both inbound and outbound TCP connection on port 443 from source 0.0.0.0/0 and to destination 0.0.0.0/0

* ​

In the Security Group, add a new rule to allow TCP connection on port 443 from source 0.0.0.0/0

**(Correct)**

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Question 59: Skipped

A production MySQL database hosted on Amazon RDS is running out of disk storage. The management has consulted its solutions architect to increase the disk space without impacting the database performance.

How can the solutions architect satisfy the requirement with the LEAST operational overhead?

* ​

Modify the DB instance settings and enable storage autoscaling.

**(Correct)**

* ​

Modify the DB instance storage type to Provisioned IOPS.

* ​

Change the default\_storage\_engine of the DB instance’s parameter group to MyISAM.

* ​

Increase the allocated storage for the DB instance.

**Explanation**

**RDS Storage Auto Scaling** automatically scales storage capacity in response to growing database workloads, with zero downtime.

Under-provisioning could result in application downtime, and over-provisioning could result in underutilized resources and higher costs. With RDS Storage Auto Scaling, you simply set your desired maximum storage limit, and Auto Scaling takes care of the rest.

RDS Storage Auto Scaling continuously monitors actual storage consumption, and scales capacity up automatically when actual utilization approaches provisioned storage capacity. Auto Scaling works with new and existing database instances. You can enable Auto Scaling with just a few clicks in the AWS Management Console. There is no additional cost for RDS Storage Auto Scaling. You pay only for the RDS resources needed to run your applications.

Hence, the correct answer is:**Modify the DB instance settings and enable storage autoscaling.**

The option that says: **Increase the allocated storage for the DB instance**is incorrect. Although this will solve the problem of low disk space, increasing the allocated storage might cause performance degradation during the change.

The option that says: **Change the default\_storage\_engine of the DB instance’s parameter group to MyISAM**is incorrect. This is just a storage engine for MySQL. It won't increase the disk space in any way.

The option that says: **Modify the DB instance storage type to Provisioned IOPS**is incorrect. This may improve disk performance but it won't solve the problem of low database storage.

**References:**

<https://aws.amazon.com/about-aws/whats-new/2019/06/rds-storage-auto-scaling/>

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_PIOPS.StorageTypes.html#USER_PIOPS.Autoscaling>

**Check out this Amazon RDS Cheat Sheet:**

[https://tutorialsdojo.com/amazon-relational-database-service-amazon-rds/](https://tutorialsdojo.com/amazon-relational-database-service-amazon-rds/?src=udemy)

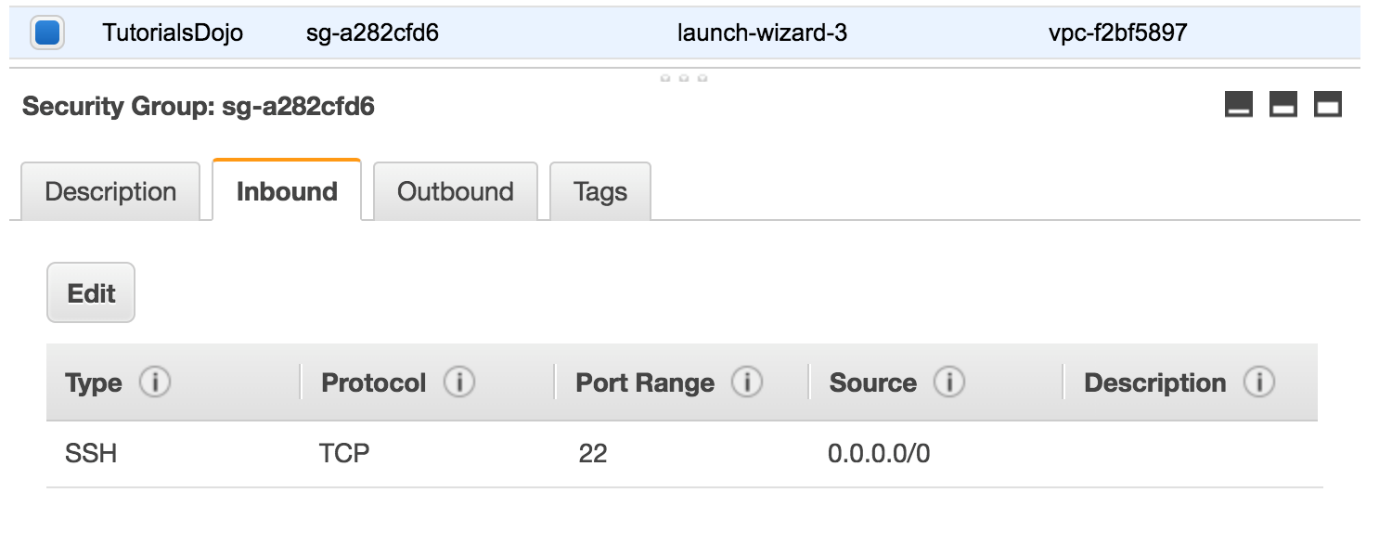
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Question 60: Skipped

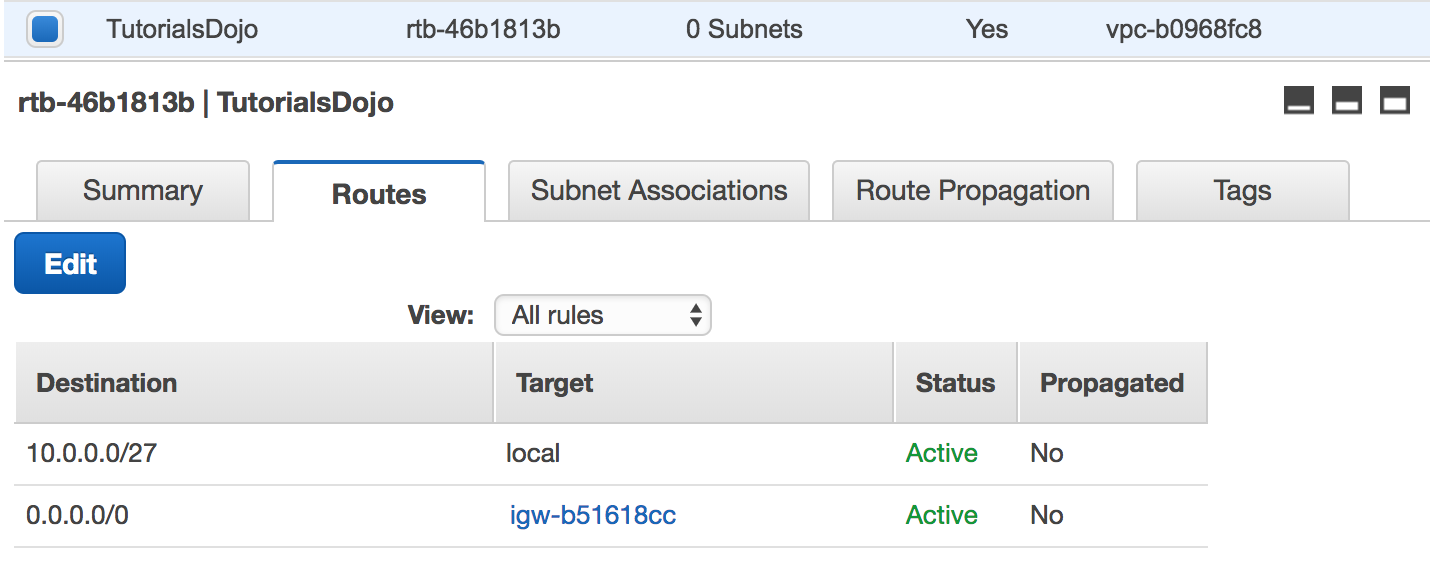
A company has an On-Demand EC2 instance located in a subnet in AWS that hosts a web application. The security group attached to this EC2 instance has the following Inbound Rules:

[Larger image](javascript:void(0))

[[](javascript:void(0))](javascript:void(0))

The Route table attached to the VPC is shown below. You can establish an SSH connection into the EC2 instance from the Internet. However, you are not able to connect to the web server using your Chrome browser.

[Larger image](javascript:void(0))

[[](javascript:void(0))](javascript:void(0))

Which of the below steps would resolve the issue?

* ​

In the Route table, add this new route entry: 0.0.0.0 -> igw-b51618cc

* ​

In the Security Group, add an Inbound HTTP rule.

**(Correct)**

* ​

In the Route table, add this new route entry: 10.0.0.0/27 -> local

* ​

In the Security Group, remove the SSH rule.

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Question 61: Skipped

A company needs to launch an Amazon EC2 instance with a persistent block storage to host its application. The stored data must be encrypted at rest.

Which of the following is the most suitable storage solution in this scenario?

* ​

Amazon EC2 Instance Store with SSL encryption.

* ​

Encrypted Amazon EBS volume using AWS KMS.

**(Correct)**

* ​

Amazon EBS volume with server-side encryption (SSE) enabled.

* ​

Encrypted Amazon EC2 Instance Store using AWS KMS.

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Question 62: Skipped

A company has an e-commerce application that saves the transaction logs to an S3 bucket. You are instructed by the CTO to configure the application to keep the transaction logs for one month for troubleshooting purposes, and then afterward, purge the logs.

What should you do to accomplish this requirement?

* ​

Add a new bucket policy on the Amazon S3 bucket.

* ​

Create a new IAM policy for the Amazon S3 bucket that automatically deletes the logs after a month

* ​

Enable CORS on the Amazon S3 bucket which will enable the automatic monthly deletion of data

* ​

Configure the lifecycle configuration rules on the Amazon S3 bucket to purge the transaction logs after a month

**(Correct)**

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Question 63: Skipped

An online stocks trading application that stores financial data in an S3 bucket has a lifecycle policy that moves older data to Glacier every month. There is a strict compliance requirement where a surprise audit can happen at anytime and you should be able to retrieve the required data in under 15 minutes under all circumstances. Your manager instructed you to ensure that retrieval capacity is available when you need it and should handle up to 150 MB/s of retrieval throughput.

Which of the following should you do to meet the above requirement? (Select TWO.)

* ​

Specify a range, or portion, of the financial data archive to retrieve.

* ​

Use Expedited Retrieval to access the financial data.

**(Correct)**

* ​

Use Bulk Retrieval to access the financial data.

* ​

Retrieve the data using Amazon Glacier Select.

* ​

Purchase provisioned retrieval capacity.

**(Correct)**

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Question 64: Skipped

A large financial firm needs to set up a Linux bastion host to allow access to the Amazon EC2 instances running in their VPC. For security purposes, only the clients connecting from the corporate external public IP address 175.45.116.100 should have SSH access to the host.

Which is the best option that can meet the customer's requirement?

* ​

Network ACL Inbound Rule: Protocol – TCP, Port Range-22, Source 175.45.116.100/0

* ​

Network ACL Inbound Rule: Protocol – UDP, Port Range – 22, Source 175.45.116.100/32

* ​

Security Group Inbound Rule: Protocol – TCP. Port Range – 22, Source 175.45.116.100/32

**(Correct)**

* ​

Security Group Inbound Rule: Protocol – UDP, Port Range – 22, Source 175.45.116.100/32

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Question 65: Skipped

**A large insurance company has an AWS account that contains three VPCs (DEV, UAT and PROD) in the same region. UAT is peered to both PROD and DEV using a VPC peering connection. All VPCs have non-overlapping CIDR blocks. The company wants to push minor code releases from Dev to Prod to speed up time to market.  
  
Which of the following options helps the company accomplish this?**

* ​

Create a new entry to PROD in the DEV route table using the VPC peering connection as the target.

* ​

Change the DEV and PROD VPCs to have overlapping CIDR blocks to be able to connect them.

* ​

Create a new VPC peering connection between PROD and DEV with the appropriate routes.

**(Correct)**

* ​

Do nothing. Since these two VPCs are already connected via UAT, they already have a connection to each other.

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