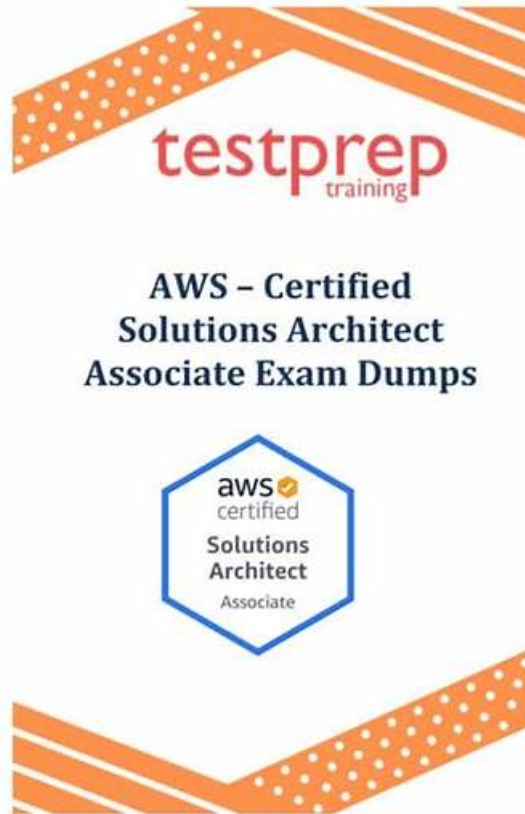


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Amazon AWS Certified Solutions Architect - Associate (SAA-C03) Sample Questions (Q453-Q458):

NEW QUESTION # 453

A company deployed a three-tier web application in a single Availability Zone in the us-east-1 Region on a single Amazon EC2 instance. Usage of the application is growing.

A solutions architect needs to ensure that the application can handle the growing amount of traffic and that the application is resilient. The solution must be cost-effective.

Which solution will meet these requirements MOST cost-effectively?

- A. Create an EC2 Auto Scaling group that contains a minimum of three EC2 instances spread across Availability Zones. Create an Application Load Balancer (ALB). Configure the ALB to route traffic to a target group that contains all the instances. Create an Amazon CloudWatch alarm to scale the EC2 instances horizontally to handle the application traffic.
- B. Create eight additional EC2 instances spread across three separate Availability Zones. Create an Application Load Balancer (ALB). Configure the ALB to route traffic to a target group that contains all nine instances. Create an Amazon CloudWatch alarm to scale the EC2 instances horizontally to handle the application traffic.
- C. Create two additional EC2 instances spread across two separate Availability Zones. Create an Application Load Balancer (ALB). Configure the ALB to route traffic to a target group that contains all three instances. Create an Amazon CloudWatch alarm to scale the EC2 instances vertically to handle the application traffic.
- D. Create an EC2 Auto Scaling group that contains a minimum of three EC2 instances in the same Availability Zone. Create an Application Load Balancer (ALB). Configure the ALB to route traffic to a target group that contains all the instances. Configure scheduled scaling for the Auto Scaling group.

Answer: A

Explanation:

AWS best practice for a highly available, resilient web application is:

- * Run EC2 instances in an Auto Scaling group across multiple Availability Zones.
- * Put an Application Load Balancer (ALB) in front of the Auto Scaling group.
- * Use CloudWatch alarms and scaling policies for horizontal scaling based on demand.

Option D implements exactly this: a minimum of three instances spread across AZs (resilience to AZ failure), behind an ALB, with automatic horizontal scaling. This provides both elasticity and high availability with good cost efficiency (instances scale out/in based on traffic).

Option A uses only three fixed instances and relies on vertical scaling, which does not scale as well and is less resilient.

Option B overprovisions to nine instances from the start, which is unnecessarily expensive.

Option C keeps all instances in a single AZ, which does not meet resilience requirements.

NEW QUESTION # 454

A company is migrating a distributed application to AWS. The application serves variable workloads. The legacy platform consists of a primary server that coordinates jobs across multiple compute nodes. The company wants to modernize the application with a solution that maximizes resiliency and scalability.

How should a solutions architect design the architecture to meet these requirements?

- A. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a destination for the jobs. Implement the compute nodes with Amazon EC2 instances that are managed in an Auto Scaling group. Configure EC2 Auto Scaling based on the size of the queue.
- B. Implement the primary server and the compute nodes with Amazon EC2 instances that are managed in an Auto Scaling group. Configure Amazon EventBridge (Amazon CloudWatch Events) as a destination for the jobs. Configure EC2 Auto Scaling based on the load on the compute nodes.
- C. Implement the primary server and the compute nodes with Amazon EC2 instances that are managed in an Auto Scaling group. Configure AWS CloudTrail as a destination for the jobs. Configure EC2 Auto Scaling based on the load on the primary server.
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a destination for the jobs. Implement the compute nodes with Amazon EC2 instances that are managed in an Auto Scaling group. Configure EC2 Auto Scaling to use scheduled scaling.

Answer: A

Explanation:

To maximize resiliency and scalability, the best solution is to use an Amazon SQS queue as a destination for the jobs. This decouples the primary server from the compute nodes, allowing them to scale independently.

This also helps to prevent job loss in the event of a failure. Using an Auto Scaling group of Amazon EC2 instances for the compute nodes allows for automatic scaling based on the workload. In this case, it's recommended to configure the Auto Scaling group based on the size of the Amazon SQS queue, which is a better indicator of the actual workload than the load on the primary server or compute nodes. This approach ensures that the application can handle variable workloads, while also minimizing costs by automatically scaling up or down the compute nodes as needed.

NEW QUESTION # 455

Your application is using an ELB in front of an Auto Scaling group of web/application servers deployed across two AZs and a Multi-AZ RDS Instance for data persistence.

The database CPU is often above 80% usage and 90% of I/O operations on the database are reads. To improve performance you recently added a single-node Memcached ElastiCache Cluster to cache frequent DB query results. In the next weeks the overall workload is expected to grow by 30%.

Do you need to change anything in the architecture to maintain the high availability of the application with the anticipated additional load? Why?

- A. No if the cache node fails you can always get the same data from the DB without having any availability impact.
- B. Yes you should deploy the Memcached ElastiCache Cluster with two nodes in the same AZ as the RDS DB master instance to handle the load if one cache node fails.
- **C. Yes, you should deploy two Memcached ElastiCache Clusters in different AZs because the RDS Instance will not be able to handle the load if one cache node fails.**
- D. No, if the cache node fails the automated ElastiCache node recovery feature will prevent any availability impact.

Answer: C

NEW QUESTION # 456

A healthcare provider is planning to store patient data on AWS as PDF files. To comply with regulations, the company must encrypt the data and store the files in multiple locations. The data must be available for immediate access from any environment.

- **A. Store the files in an Amazon S3 bucket. Use the Standard storage class. Enable server-side encryption with Amazon S3 managed keys (SSE-S3) on the bucket. Configure cross-Region replication on the bucket.**
- B. Store the files in an Amazon Elastic Block Store (Amazon EBS) volume. Configure AWS Backup to back up the volume on a regular schedule. Use an AWS KMS key to encrypt the backups.
- C. Store the files in an Amazon S3 bucket. Use the S3 Glacier Flexible Retrieval storage class. Ensure that all PDF files are encrypted by using client-side encryption before the files are uploaded. Configure cross-Region replication on the bucket.
- D. Store the files in an Amazon Elastic File System (Amazon EFS) volume. Use an AWS KMS managed key to encrypt the EFS volume. Use AWS DataSync to replicate the EFS volume to a second AWS Region.

Answer: A

Explanation:

Amazon S3 with the Standard storage class is the best solution:

Encryption: SSE-S3 ensures server-side encryption of the data, meeting compliance requirements.

Immediate access: The Standard storage class provides low-latency and high-throughput access to data.

Multi-location storage: Cross-Region replication ensures data is stored in multiple AWS Regions for redundancy.

Why Other Options Are Not Ideal:

Option B:

Amazon EFS is more costly and suited for file systems rather than object storage. Not cost-effective.

Option C:

Amazon EBS is block storage and not optimized for object storage like PDFs. Backup schedules do not ensure immediate availability. Not suitable.

Option D:

S3 Glacier Flexible Retrieval is designed for archival, not immediate access. Does not meet access requirements.

AWS References:

Amazon S3 Standard Storage: AWS Documentation - S3 Storage Classes

NEW QUESTION # 457

A development team needs to host a website that will be accessed by other teams. The website contents consist of HTML, CSS, client-side JavaScript, and images Which method is the MOST cost-effective for hosting the website?

- A. Configure an Application Load Balancer with an AWS Lambda target that uses the Express.js framework.
- **B. Create an Amazon S3 bucket and host the website there**
- C. Deploy a web server on an Amazon EC2 instance to host the website.
- D. Containerize the website and host it in AWS Fargate.

Answer: B

Explanation:

Explanation

In Static Websites, Web pages are returned by the server which are prebuilt.

They use simple languages such as HTML, CSS, or JavaScript.

There is no processing of content on the server (according to the user) in Static Websites. Web pages are returned by the server with no change therefore, static Websites are fast.

There is no interaction with databases.

Also, they are less costly as the host does not need to support server-side processing with different languages.

In Dynamic Websites, Web pages are returned by the server which are processed during runtime means they are not prebuilt web pages but they are built during runtime according to the user's demand.

These use server-side scripting languages such as PHP, Node.js, ASP.NET and many more supported by the server.

So, they are slower than static websites but updates and interaction with databases are possible.

NEW QUESTION # 458

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