SAA-C01 Q&As

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QUESTION 1

An application runs on EC2 instances behind an Elastic Load Balancing Application Load Balancer. The instances run in an EC2 Auto Scaling group across multiple Availability Zones. The application provides a RESTful interface with both synchronous and asynchronous operations. The asynchronous operations require up to 5 minutes to complete. Although the application must remain available at all times, after business hours, the traffic going to the application is greatly reduced and often results in the Auto Scaling group running the minimum number of On-Demand Instances.

What should the Solutions Architect recommend to optimize the cost of the environment after business hours?

A. Change the Availability Zones in which the instances were created to another Availability Zone in the same region with a lower cost.

B. Replace all On-Demand Instances with Spot Instances in the Auto Scaling group.

C. Purchase Reserved Instances for the minimum number of Auto Scaling instances.

D. Reduce the number of minimum instances to 0. New requests to the Application Load Balancer create new instances.

Correct Answer: C

QUESTION 2

A Solutions Architect notices slower response times from an application. The CloudWatch metrics on the MySQL RDS indicate Read IOPS are high and fluctuate significantly when the database is under load. How should the database environment be re-designed to resolve the IOPS fluctuation?

A. Change the RDS instance type to get more RAM.

B. Change the storage type to Provisioned IOPS.

C. Scale the web server tier horizontally.

D. Split the DB layer into separate RDS instances.

Correct Answer: B

QUESTION 3

A company has gigabytes of web log files stored in an Amazon S3 bucket. A Solutions Architect wants to copy those files into Amazon Redshift for analysis. The company\\'s security policy mandates that data is encrypted at rest both in the Amazon Redshift cluster and the Amazon S3 bucket. Which process will fulfill the security requirements?

A. Enable server-side encryption on the Amazon S3 bucket. Launch an unencrypted Amazon Redshift cluster. Copy the data into the Amazon Redshift cluster.

B. Enable server-side encryption on the Amazon S3 bucket. Copy data from the Amazon S3 bucket into an unencrypted Redshift cluster. Enable encryption on the cluster.

C. Launch an encrypted Amazon Redshift cluster. Copy the data from the Amazon S3 bucket into the Amazon Redshift cluster. Copy data back to the Amazon S3 bucket in encrypted form.

D. Enable server-side encryption on the Amazon S3 bucket. Launch an encrypted Amazon Redshift cluster. Copy the data into the Amazon Redshift cluster.

Correct Answer: D

Reference: https://aws.amazon.com/blogs/big-data/encrypt-your-amazon-redshift-loads-with-amazon-s3-and-aws-kms/

QUESTION 4

A Solutions Architect must review an application deployed on EC2 instances that currently stores multiple 5-GB files on attached instance store volumes. The company recently experienced a significant data loss after stopping and starting their instances and wants to prevent the data loss from happening again. The solution should minimize performance impact and the number of code changes required.

What should the Solutions Architect recommend?

A. Store the application data in Amazon S3

B. Store the application data in an EBS volume

C. Store the application data in Amazon ElastiCache

D. Store the application data in Amazon DynamoDB

Correct Answer: B

Reference: http://jayendrapatil.com/tag/i2/

QUESTION 5

A web application stores all data in an Amazon RDS Aurora database instance. A Solutions Architect wants to provide access to the data for a detailed report for the Marketing team, but is concerned that the additional load on the database will affect the performance of the web application.

How can the report be created without affecting the performance of the application?

A. Create a read replica of the database.

B. Provision a new RDS instance as a secondary master.

C. Configure the database to be in multiple regions.

D. Increase the number of provisioned storage IOPS.

Correct Answer: B

QUESTION 6

An e-commerce application places orders in an Amazon SQS queue. When a message is received, Amazon EC2 worker instances process the request. The EC2 instances are in an Auto Scaling group. How should the architecture be designed to scale up and down with the LEAST amount of operational overhead?

A. Use an Amazon CloudWatch alarm on the EC2 CPU to scale the Auto Scaling group up and down.

B. Use an EC2 Auto Scaling health check for messages processed on the EC2 instances to scale up and down.

C. Use an Amazon CloudWatch alarm based on the number of visible messages to scale the Auto Scaling group up or down.

D. Use an Amazon CloudWatch alarm based on the CPU to scale the Auto Scaling group up or down.

Correct Answer: B

QUESTION 7

A company needs to use AWS resources to expand capacity for a website hosted in an on-premises data center. The AWS resources will include load balancers, Auto Scaling, and Amazon EC2 instances that will access an on-premises database. Network connectivity has been established, but no traffic is going to the AWS environment.

How should Amazon Route 53 be configured to distribute load to the AWS environment? (Select TWO.)

A. Set up a weighted routing policy, distributing the workload between the load balancer and the on-premises environment.

B. Set up an A record to point the DNS name to the IP address of the load balancer.

C. Create multiple A records for the EC2 instances.

D. Set up a geolocation routing policy to distribute the workload between the load balancer and the on-premises environment.

E. Set up a routing policy for failover using the on-premises environment as primary and the load balancer as secondary.

Correct Answer: AB

QUESTION 8

A company has thousands of files stored in an Amazon S3 bucket that has a well-defined access pattern. The files are accessed by an application multiple times a day for the first 30 days. Files are rarely accessed within the next 90 days. After that, the files are never accessed again. During the first 120 days, accessing these files should never take more than a few seconds.

Which lifecycle policy should be used for the S3 objects to minimize costs based on the access pattern?

A. Use Amazon S3 Standard-Infrequent Access (S3 Standard-IA) storage for the first 30 days. Then move the files to the GLACIER storage class for the next 90 days. Allow the data to expire after that.

B. Use Amazon S3 Standard storage for the first 30 days. Then move the files to Amazon S3 Standard-Infrequent Access (S3 Standard-IA) for the next 90 days. Allow the data to expire after that.

C. Use Amazon S3 Standard storage for first 30 days. Then move the files to the GLACIER storage class for the next 90 days. Allow the data to expire after that.

D. Use Amazon S3 Standard-Infrequent Access (S3 Standard-IA) for the first 30 days. After that, move the data to the GLACIER storage class, where is will be deleted automatically.

Correct Answer: B

QUESTION 9

A Solutions Architect is designing a web application that will be hosted on Amazon EC2 instances in a public subnet. The web application uses a MySQL database in a private subnet. The database should be accessible to database administrators.

Which of the following options should the Architect recommend? (Choose two.)

A. Create a bastion host in a public subnet, and use the bastion host to connect to the database.

B. Log in to the web servers in the public subnet to connect to the database.

C. Perform DB maintenance after using SSH to connect to the NAT Gateway in a public subnet.

D. Create an IPSec VPN tunnel between the customer site and the VPC, and use the VPN tunnel to connect to the database.

E. Attach an Elastic IP address to the database.

Correct Answer: BD

QUESTION 10

What bandwidths do AWS Direct Connect currently support?

A. 10Mbps and 100Mbps

B. 10Gbps and 100Gbps

C. 100Mbps and 1Gbps

D. 1Gbps and 10 Gbps

Correct Answer: D

AWS Direct Connection currently supports 1Gbps and 10 Gbps. Reference: http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html

QUESTION 11

A three-tier application is being created to host small news articles. The application is expected to serve millions of

users. When breaking news occurs, the site must handle very large spikes in traffic without significantly impacting database performance.

Which design meets these requirements while minimizing costs?

A. Use Auto Scaling groups to increase the number of Amazon EC2 instances delivering the web application

B. Use Auto Scaling groups to increase the size of the Amazon RDS instances delivering the database

C. Use Amazon DynamoDB strongly consistent reads to adjust for the increase in traffic

D. Use Amazon DynamoDB Accelerator (DAX) to cache read operations to the database

Correct Answer: A

QUESTION 12

You have launched an EC2 instance with four (4) 500 GB EBS Provisioned IOPS volumes attached The EC2 Instance Is EBS-Optimized and supports 500 Mbps throughput between EC2 and EBS. The two EBS volumes are configured as a single RAID o device, and each Provisioned IOPS volume is provisioned with 4.000 IOPS (4 000 16KB reads or writes) for a total of 16.000 random IOPS on the instance The EC2 Instance initially delivers the expected 16 000 IOPS random read and write performance Sometime later in order to increase the total random I/O performance of the instance, you add an additional two 500 GB EBS Provisioned IOPS volumes to the RAID Each volume Is provisioned to 4.000 IOPs like the original four for a total of 24.000 IOPS on the EC2 instance Monitoring shows that the EC2 instance CPU utilization increased from 50% to 70%. but the total random IOPS measured at the instance level does not increase at all. What is the problem and a valid solution?

A. Larger storage volumes support higher Provisioned IOPS rates: increase the provisioned volume storage of each of the 6 EBS volumes to 1TB

B. The EBS-Optimized throughput limits the total IOPS that can be utilized use an EBS-Optimized instance that provides larger throughput.

C. Small block sizes cause performance degradation, limiting the I\\'O throughput, configure the instance device driver and file system to use 64KB blocks to increase throughput.

D. RAID 0 only scales linearly to about 4 devices, use RAID 0 with 4 EBS Provisioned IOPS volumes but increase each Provisioned IOPS EBS volume to 6.000 IOPS.

E. The standard EBS instance root volume limits the total IOPS rate, change the instant root volume to also be a 500GB 4.000 Provisioned IOPS volume.

Correct Answer: E

QUESTION 13

A web application runs on Amazon EC2 instances behind an ELB Application Load Balancer. The instances run in an EC2 Auto Scaling group across multiple Availability Zones. Every night, the Auto Scaling group doubles in size. Traffic

analysis shows that users in a particular region are requesting the same static content stored locally on the EC2 instances.

How can a Solutions Architect reduces the need to scale and improve application performance for the users?

A. Re-deploy the application in a new VPC that is closer to the users making the requests.

B. Create an Amazon CloudFront distribution for the site and redirect user traffic to the distribution.

C. Store the contents on Amazon EFS instead of the EC2 root volume.

D. Implement Amazon Redshift to create a repository of the content closer to the users.

Correct Answer: B

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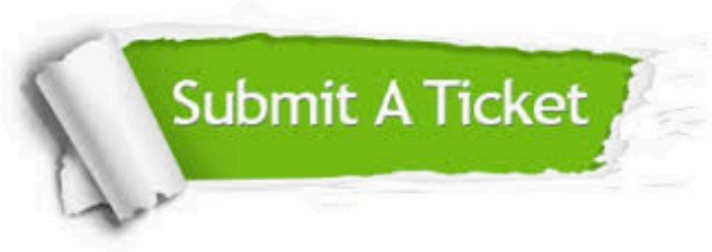

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