



SOA-C01^{Q&As}

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QUESTION 1

A SysOps Administrator needs an Amazon EBS volume type for a big data application. The application data is accessed infrequently and stored sequentially.

What EBS volume type will be the MOST cost-effective solution?

- A. Provisioned IOPS SSD (io1)
- B. Cold HDD (sc1)
- C. Throughput Optimized HDD (st1)
- D. General Purpose SSD (gp2)

Correct Answer: B

Explanation: SC1 is backed by hard disk drives (HDDs) and provides the lowest cost per GB of all EBS volume types. It is ideal for less frequently accessed workloads with large, cold datasets. Similar to st1, sc1 provides a burst model: these volumes can burst up to 80 MB/s per TB, with a baseline throughput of 12 MB/s per TB and a maximum throughput of 250 MB/s per volume. For infrequently accessed data, sc1 provides extremely inexpensive storage. SC1 is designed to deliver the expected throughput performance 99% of the time and has enough I/O credits to support a full-volume scan at the burst rate.

Reference: <https://aws.amazon.com/ebs/features/>

QUESTION 2

Website users report that an application's pages are loading slowly at the beginning of the workday. The application runs on Amazon EC2 instances, and data is stored in an Amazon RDS database. The SysOps Administrator suspects the issue is related to high CPU usage on a component of this application.

How can the Administrator find out which component is causing the performance bottleneck?

- A. Use AWS CloudTrail to review the resource usage history for each component.
- B. Use Amazon CloudWatch metrics to examine the resource usage of each component.
- C. Use Amazon Inspector to view the resource usage details for each component.
- D. Use Amazon CloudWatch Events to examine the high usage events for each component.

Correct Answer: B

Explanation:

Enhanced Monitoring provides granular real-time metrics that you can review in addition to Amazon CloudWatch metrics, which provide statistics each minute.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/rds-instance-high-cpu/>



QUESTION 3

Is it possible to protect the connections between your application servers and your MySQL instances using SSL encryption?

- A. Yes, it is possible but only in certain regions.
- B. Yes
- C. No
- D. Yes, it is possible but only in VPC.

Correct Answer: B

Explanation: To further enhance the security of your infrastructure, AWS allows you to SSL encrypt the communications between your EC2 instances and your MySQL instances. Amazon RDS generates an SSL certificate for each DB Instance. Once an encrypted connection is established, data transferred between the DB Instance and your application will be encrypted during transfer. Reference: <http://aws.amazon.com/rds/faqs/#53>

QUESTION 4

A corporate website is hosted on several Amazon EC2 instances across multiple regions around the globe.

How should an Administrator configure the website to maintain high availability with minimal downtime if one of the regions has network connectivity congestion for an extended period of time?

- A. Create an Elastic Load Balancer in front of all the Amazon EC2 instances.
- B. Create an Elastic Load Balancer that fails over to the secondary site when the primary site is not reachable.
- C. Create an Amazon Route 53 Latency Based Routing Record Set that resolves to an Elastic Load Balancer in each region. Set an appropriate health check on each ELB.
- D. Create an Amazon Route 53 latency Based Routing Record Set that resolves to Elastic Load Balancers in each region and has the Evaluate Target Health flag set to "true".

Correct Answer: D

Reference: <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/dns-failover-complexconfigs.html>

QUESTION 5

A company has deployed a new application running on Amazon EC2 instances. The application team must verify for the Security team that all common vulnerabilities and exposures have been addressed, both now and regularly throughout the application's lifespan.

How can the Application team satisfy the Security team's requirement?

- A. Perform regular assessments with Amazon Inspector



- B. Perform regular assessments with AWS Trusted Advisor
- C. Integrate AWS Personal Health Dashboard with Amazon CloudWatch events to get security notifications
- D. Grant the Administrator and Security team access to AWS Artifact

Correct Answer: A

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