**ElasticCache**

1. You are looking at ways to improve some existing infrastructure as it seems a lot of engineering resources are being taken up with basic management and monitoring tasks and the costs seem to be excessive. You are thinking of deploying Amazon ElasticCache to help. Which of the following statements is true in regards to EIasticCache?

A. You can improve load and response times to user actions and queries however the cost associated with scaling web applications will be more.

B. You can't improve load and response times to user actions and queries but you can reduce the cost associated with scaling web applications.

C. You can improve load and response times to user actions and queries however the cost associated with scaling web applications will remain the same.

D. You can improve load and response times to user actions and queries and also reduce the cost associated with scaling web applications.

1. Amazon ElastiCache can fulfill a number of roles. Choose the operations from the following list which can be implemented using ElastiCache for Redis. [Select 3]
   1. Pub/Sub
   2. SortedSets
   3. In-Memory Data Store
   4. Relational Data STore

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| No | Answer | Explanation |
| 1 | D | Amazon EIastiCache is a web service that makes it easy to deploy and run Memcached or Redis protocol-compliant server nodes in the cloud.  Amazon EIastiCache improves the performance of web applications by allowing you to retrieve information from a fast, managed, in-memory caching system, instead of relying entirely on slower disk-based databases. The service simplifies and offloads the management, monitoring and operation of in-memory cache environments, enabling your engineering resources to focus on developing applications.  Using Amazon EIastiCache, you can not only improve load and response times to user actions and queries, but also reduce the cost associated with scaling web applications. |
| 2 | A,B,C | Amazon ElastiCache offers a fully managed Memcached and Redis service. Although the name only suggests caching functionality, the Redis service in particular can offer a number of operations such as Pub/Sub, Sorted Sets and an In-Memory Data Store. However, ElastiCache is only a key-value store and cannot therefore store relational data. |
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