

Module 6 - Assignment

Problem Statement:

You work for XYZ Corporation. Your company has multiple branch offices all over the country. It wants to deploy its application on AWS that reads data from users' devices and sends reports to all the branches. The application also requires executing complex relational joins and updates. The company wants high availability for its application.

You are asked to perform the following tasks:

1. Build a highly scalable database; make sure that it is always available and accessible, and manage automated backups for this database with a retention period of 2 days
2. Build a database architecture, which lets your application read data from different regions
3. Establish a database architecture that processes the data collected for near real-time analysis
4. Upload data to a DynamoDB table that you have created
5. Take a backup of the table; delete the table, and then restore it

As the user base of the application increases, your company observes a significant latency in the transfer of data to the branches. It realizes that most of the time, the same kind of data is being fetched and sent to the branches. Therefore, you are asked to:

6. Find and implement the solution to resolve the latency issues
-