

HEALTHCARE SECTOR

MAGENTRACK

Synchronization of Magentrack's central database in AWS.



Magentrack is a Colombian company based in Bogotá D.C., specialized in computer systems design and related services. Founded on December 4, 2018, Magentrack has consolidated its position in the software and internet sector, providing innovative solutions for its clients.

CUSTOMER CHALLENGE

For Magentrack, the goal was to keep its field agents, who conduct patient census campaigns, in sync. The information collected had to be centralized in an efficient way to allow further analysis, ensuring operational continuity and data quality.



SOLUTION

To solve this challenge, with the support of Hamal Solutions, two key processes were implemented:

Data Ingest to Central DB: An Amazon RDS Postgres repository was established to centralize the collected data, using AWS Database Migration Service (DMS) for data movement and replication. In addition, network security components were integrated to protect the data.

Central DB Replication: A local component was developed on each mobile device used by field agents, responsible for validating the version and

updating the mobile database based on the content of the central repository, using the data model of the core solution.



BENEFITS

- 1. Operational Continuity in the Field:** Magentrack agents can work without interruptions, maintaining high quality standards in data collection and processing.
- 2. Standardization and Traceability:** The solution ensures that the data collected is backed up and traceable, improving the reliability and security of the information.
- 3. Scalability and Evolution:** The solution is designed to scale with future needs, with built-in security and resiliency capabilities, allowing Magentrack to adapt and grow over time.



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