Showcase Project / Case Study

Background: Our customer sells drug dispensing robots to pharmacies, many of their customers wish to scale up the number of robots they use but were lacking a means to identify the fastest robot to send a prescription to from their Pharmacy Management System (PMS). Determining which robot is fastest requires just in time awareness of the drugs stored in each robot, their inventory levels and prescriptions ahead in the queue.

Approach: Our solution was to create a cloud hosted event driven data platform.

Solution: We configured a Proof of Concept (POC) capable data platform in Azure that robots could stream data to via Debezium Change Data Capture (CDC), store the data in a pub/sub repository using Kafka and receive notification data via Azure Internet of Things (IOT) technology. We developed an API layer on top of Kafka to make it easy to query from the robots and implemented web hooks to push updates back to PMSs. We designed a data lake in anticipation of future AI features and built in an automated testing framework from day one to help ensure that the platform was highly available and data flow across the platform was moving as expected.

Results: We targeted the new technologies being introduced with a series of POCs to help de-risk the initiative and accelerate learning. This helped build confidence that the new technologies were viable, the platform was adequately scalable and the robot operating systems were capable of hosting IOT containers. We'd impressed leadership with our speed and quality consequently asked to take on a project to build a Drug master data management (MDM) repository to unify and centralize mission critical drug information. This is our first customer and has been a great partner for 2+ years. Cetus Digital knows how to get digital done right!

From the Customer

"Cetus Digital is simply awesomel! Their team's expertise and professionalism shone through as they successfully implemented cutting-edge technologies, proving the viability of new solutions for our business. Their commitment to excellence and seamless communication made the entire process a breeze. We highly recommend Cetus Digital to any company looking to embrace innovative technology. They have exceeded our expectations and helped us future-proof our operations. Thank you, Cetus Digital, for your outstanding work!"

Peter Saad, Director Product Development, Parata Systems