Implementation of PQRS Registry Data Integration

Overview

Client provides staffing and administrative services to large hospitals. Client is a qualified registry and wanted to integrate two new primary systems, used for PQRS measure calculation and data submission. Client also needed to create a data repository to store data from new sources which can be used for bundled payments. The data repository could be further enhanced to include client's data and drive additional use cases.

CitiusTech, given its expertise in data integration and data management, partnered with the client to facilitate implementation and testing of its new application.
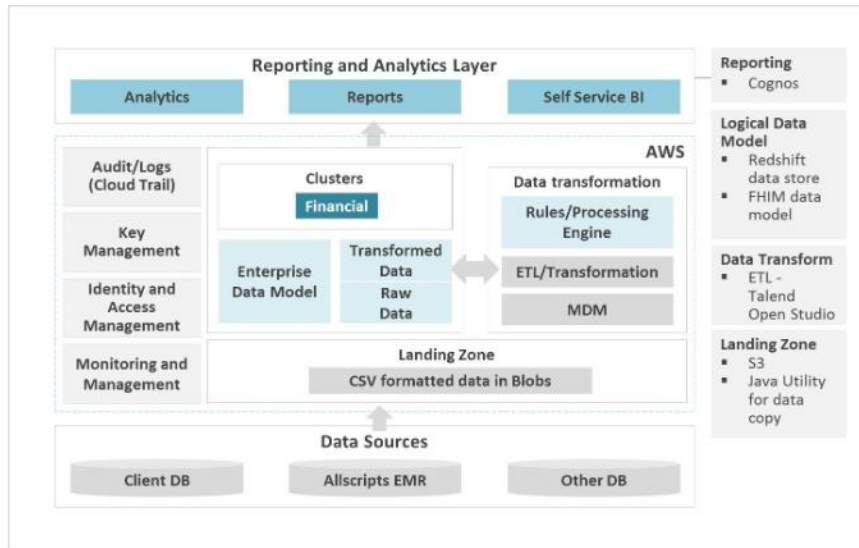
Requirement Analysis

CitiusTech's team identified the key success criteria to meet client's requirements including:

- Need of a partner who could aid in defining business and data requirements for its future applications
- A data repository to ensure that the data was moved from existing servers to an AWS environment
- Assessed the encryption and security policies needed to be implemented to handle PHI data successfully
- Auto scaling of the entire solution to maintain application availability
- Brought in a dedicated team of experts with significant experience in managing large data integration and data management projects

Solution Design

- Performed data analysis in source systems to finalize data mapping and produce a common output
- Built a highly configurable data extraction utility to move data from source systems to Amazon S3 and Redshift
- Developed an AWS cloud infrastructure to create a comprehensive data warehouse
- Developed extract jobs from Redshift to be pushed into the PQRS registry workflow
- Developed and implemented AWS Autoscaling
- functionalities to automate and orchestrate end-to-end implementation
- Leveraged the solution for implementing entire PQRS registry and reporting in AWS environment
- Implemented all HIPAA-compliant AWS components and successfully handled PHI data

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Value Delivered

By partnering with CitiusTech, the client was able to:

- Leverage clinical data expertise for use case definition and application

- Save infrastructure costs as a result of implementing auto scaling functionality

- Implement extracting and merging numerator and denominator data from two different sources, without significant changes in technical components

- Successfully manage PHI information

About CitiusTech

CitiusTech (www.citiustech.com) is a leading provider of healthcare technology services, solutions and platforms to over 130 organizations across the payer, provider, medical technology and life sciences markets. With over 5,000 technology professionals worldwide, CitiusTech powers healthcare digital transformation through next-generation technologies, solutions and accelerators. Key focus areas include healthcare interoperability & data management, quality & performance analytics, value-based care, omni-channel member experience, connected health, virtual care coordination & delivery, personalized medicine and population health management. CitiusTech has two subsidiaries, FluidEdge Consulting (www.fluidedgeconsulting.com) and SDLC Partners (www.sdlcpartners.com), with deep expertise in healthcare consulting and payer technologies, respectively. CitiusTech's cutting-edge technology expertise, deep healthcare domain expertise and a strong focus on digital transformation enables healthcare organizations to reinvent themselves to deliver better outcomes, accelerate growth, drive efficiencies, and ultimately make a meaningful impact to patients..

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