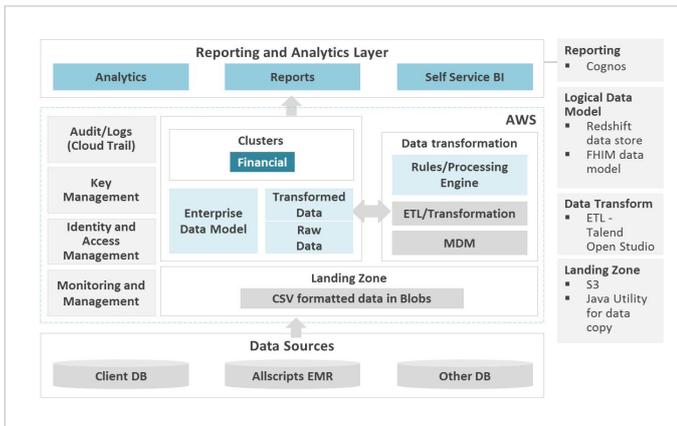


# Case Study: PQRS Registry Data Integration

## Client Requirements

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.



## CitiusTech Solution

Client needed a partner who could aid in defining business and data requirements for its future applications. Client also required a data repository to ensure that the data was moved from existing servers to an AWS environment. The team assessed the encryption and security policies needed to be implemented to handle PHI data successfully. The team also recommended orchestration and auto scaling of the entire solution to

maintain application availability. CitiusTech provided client with a dedicated team of experts with significant experience in managing large data integration and data management projects.

## Solution Design

CitiusTech's dedicated team worked closely with client teams on the following areas:

- 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

## Value Delivered

By partnering with CitiusTech, the client was able to:

- Leverage CitiusTech's clinical data expertise for use case definition and application
- Leverage CitiusTech's expertise in cloud to design a scalable cloud-based solution
- Save infrastructure costs significantly as a result of implementing auto scaling functionality
- Successfully implement extracting and merging numerator and denominator data from two different sources, without significant changes in technical components
- Successfully handle PHI information

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## About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations, with over 2,700 professionals worldwide. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management. CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.

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