

Migration of Cloud-Based Multi-Tenant Integration Engine

Overview

Client is a leading provider of EMR platforms and provides software and services across multiple healthcare facilities nationwide. Client wanted to migrate its on-premise integration engine to a secure and scalable cloud platform. In addition, the client sought to reduce deployment costs and needed larger data storage.

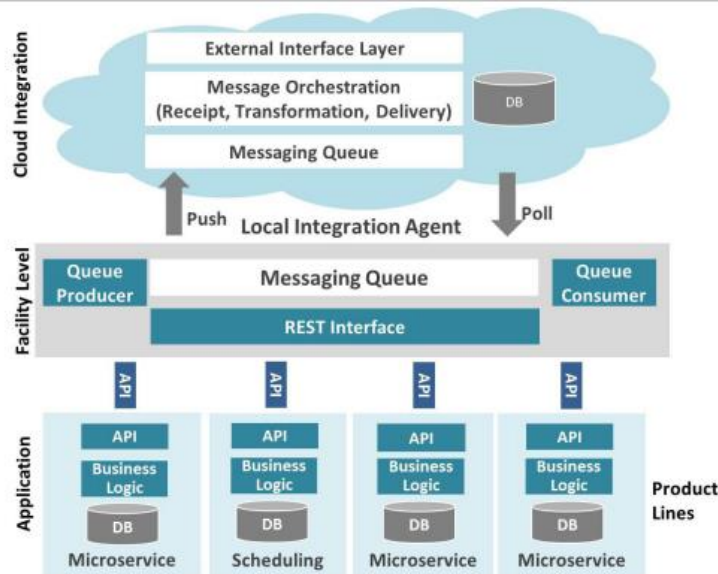
CitiusTech was selected to perform the migration, given its expertise in cloud computing (Amazon Web Services), clinical workflows and healthcare interoperability.

Requirement Analysis

- Migrate on-premise application to AWS cloud
- Loosely couple multiple services with zero downtime
- Ensure high availability of the application
- Horizontally scale to support high IOPS
- Ensure durable and highly-scalable cloud storage of clinical documents
- Support backup and disaster recovery

Solution Design

- Architected, designed and developed cloud-based containerized microservices hosted on AWS platform
- Ensured continuous integration and deployed entire application on AWS
- Ensured encryption of data at rest and in-transit, HIPAA compliance using AWS BAA and audit logs (21 CFR)
- Implemented fault-tolerant message delivery
- Provisioned auto-horizontal scaling, high availability and disaster recovery
- Provisioned persistent storage of clinical documents on Amazon S3



Solution Schematic

Customer Value

- Leveraged CitiusTech's strong cloud expertise for full application lifecycle management on AWS
- Moved to subscription-based pricing. Enabled resource-based tagging as per business units
- Elevated performance by 90% with code and query optimization

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.sdldapartners.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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