

Healthcare Data Platform Accelerator for AWS

Enabling healthcare organizations to establish a single source of truth and get near-real-time insights



In healthcare, enterprises need to deal with diverse data sets from disparate sources. That's why ensuring the accuracy and completeness of healthcare data while complying with regulations, such as HIPAA, GDPR, etc., is a universal challenge for healthcare organizations.

Although a unified data platform can overcome this problem, architecture and service integration complexities often pose multiple challenges.

That's where Impetus Healthcare Data Platform Accelerator (HDP) can help.

With a platform-centric approach, Impetus HDP accelerates the setup of a modern, secure, and compliant cloud-centric architecture while handling the entire healthcare platform lifecycle, from creation to operationalization.

Impetus Healthcare Data Platform Accelerator (HDP)

Impetus Healthcare Data Platform Accelerator is a tailor-made solution designed to address the pressing requirements of healthcare organizations and enterprises. HDP offers a comprehensive solution, enabling healthcare organizations to adapt and scale quickly without limits and optimize costs by leveraging on-demand infrastructure.

What's possible

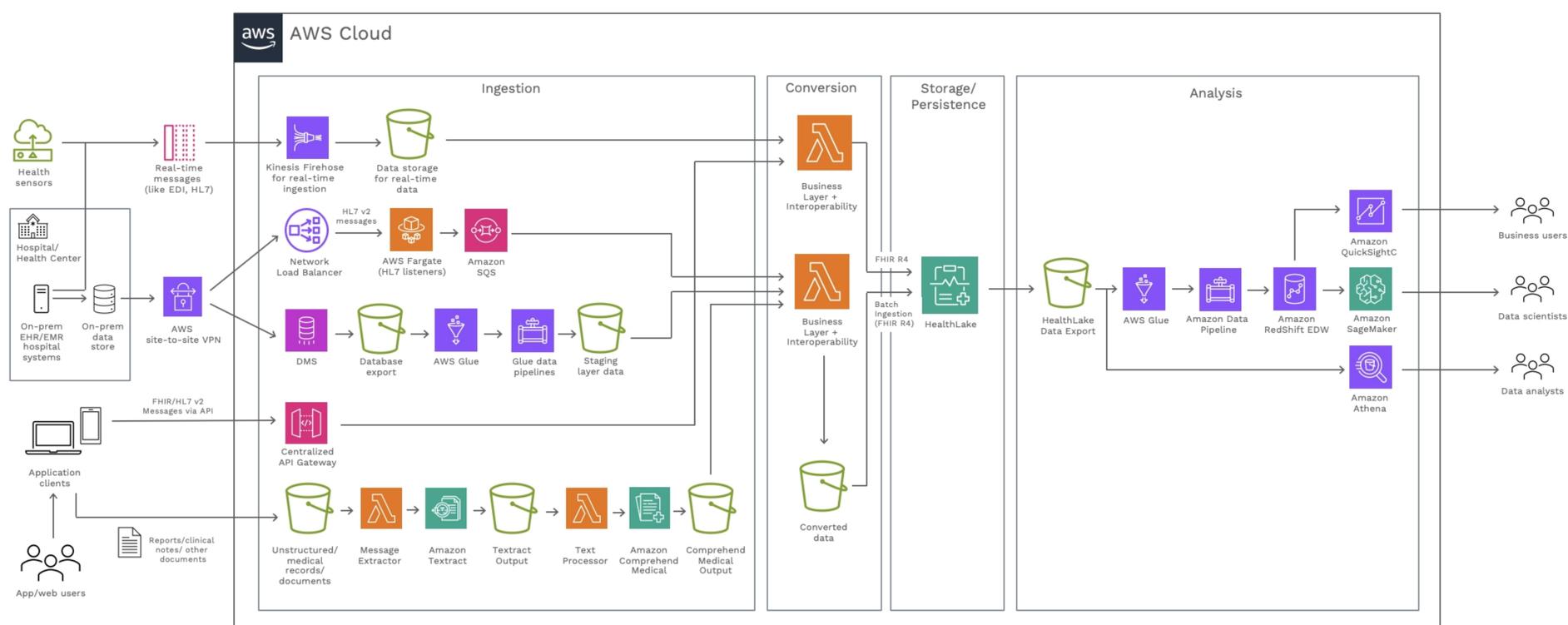
- Store vast amounts of structured data in a unified storage layer
- Improve ingestion of health data/reports
- Convert different health protocol/format data to FHIR format
- Support multiple modern healthcare regulatory regimes, like HIPAA and GDPR
- Provide custom insights and analytics, machine learning support, and easy, ready-to-use microservices
- Enable scalability as required

How it works?

1. Setting up infrastructure with primary inputs from user
2. Hydrating the platform from diverse data sources
3. Curating data for consumption

Key benefits

- Single source of truth for all data types, including clinical notes, lab reports, medical images, etc.
- Seamless support for structured and unstructured data from diverse sources
- Efficient structured data ingestion in industry-standard healthcare messaging formats, like HL7 v2 and FHIR
- End-to-end support for various data ingestion strategies, including real-time, on-premises connectivity, API-driven ingestion, and unstructured file uploads
- Securely store structured data in the widely accepted FHIR R4 format while ensuring HIPAA compliance
- Design and run custom analytics pipelines at scale, advancing rapid response in patient care decisions
- Utilize custom machine learning strategies to understand patient treatment and enhance care quality



Healthcare Data Platform Accelerator analytics environment

Resources

BLOG

Enabling healthcare data security and compliance with Impetus and AWS

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Saved 80% operational cost with an auto-scalable data platform on AWS for a leading US healthcare technology firm

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CASE STUDY

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