Case Study: Research Platform for Imaging Data

Client Requirements

Client is a global biotechnology corporation which wanted to build a cloud-hosted global collaboration portal across multiple stakeholders including data scientists, providers, governments, and scientific & research communities.
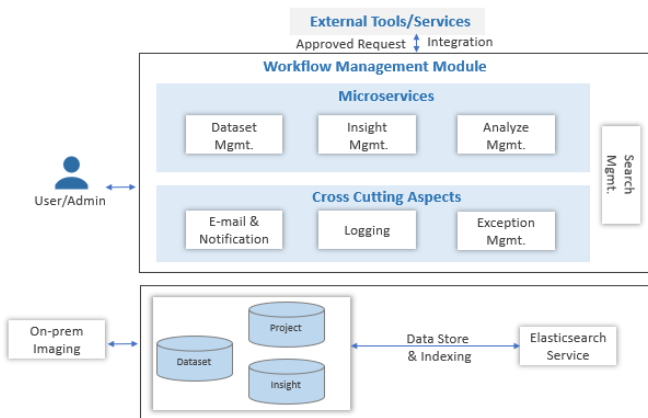
Client partnered with CitiusTech to build the imaging specific portion of their portal to ensure that the implementation was compatible with their comprehensive data management strategy.

Solution Schematic

CitiusTech Services:

- Conducted a short-term consulting engagement to clearly define the requirements for imaging data integration by working with a broad set of stakeholders across the client's user base

- Worked closely with key technical stakeholders from the client side to ensure that the overall imaging solution was seamlessly integrated into the existing collaboration portal

- Built a robust image ingestion infrastructure to move imaging data into the AWS S3 buckets

- Developed a search module to provide access to key imaging data attributes required for research purposes spanning across public and private DICOM metadata as well as pixel level insights

- Built a comprehensive auditability module to trace the transfer and record access of imaging data in a DICOM compliant format

Value Delivered:

- Developed an imaging ingestion pipeline to move data from multiple sources including research organizations, providers, etc. into the AWS environment

- Developed a complex user and organization hierarchy to support access controls on imaging data

- Developed an integrated search mechanism which allowed users to extend existing search capabilities into imaging related parameters

CitiusTech