Prototype Architecture: Data Platfrom > Genomics + Healthcare Analysis

Google Cloud Platform

Scientist

High Throughput Genome Sequences

HMS / EHR / PACS

Lab notebooks
Cloud Datalab

Ingestion

HTG pipelines
Dataflow

Data collection
Pub/Sub

Storage

Metadata
Cloud SQL

Raw Datafiles
Cloud Storage

Processed Data
Cloud Storage

Analytics

Online Analytics
BigQuery & Looker
Looker

ML and NLP models

Genomics

Data catalog

Security

Cloud IAM

Security Key Enforcement

Monitoring

Monitoring

Logging

Computing

CPUs and GPUs