

GENOMICS AND LIFE SCIENCES

Unravel the genetic components of complex diseases with Multi-Cloud Data Services

Typing the human genome letter-for-letter will result in a stack of paper as tall as the Statue of Liberty. These huge data sets require fast processing to solve complex healthcare issues that can save or improve lives. Cloud solutions can accelerate time-to-insight for a range of applications, including clinical genomic sequencing, drug design, and cancer research. Cloud-based artificial intelligence (AI) and analytics tools can be used to help doctors identify and locate diseases faster by processing and analyzing the genome files.

The flexibility of multi-cloud tools layered over cloud-adjacent big data lakes makes these life-altering analytics possible in shorter amounts of time, with less complexity and reduced management overhead.



Hospitals can store and organize Picture Archiving and Communication System (PACS) data in a centralized location, accessible by all clouds simultaneously. This allows teams to leverage innovative and cutting-edge AI tools of choice to analyze medical images that could lead to early diagnosis of life-threatening issues.

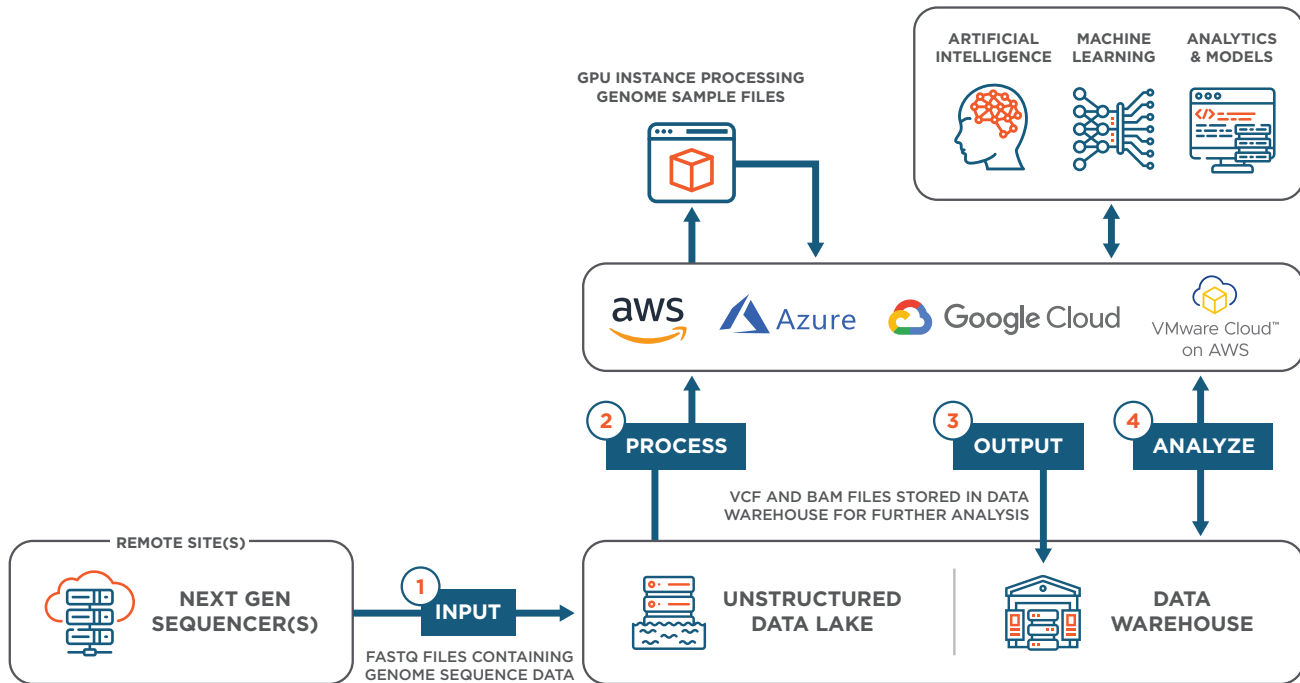


Geographically dispersed researchers around the world can share and access the same datasets with on-demand scalable cloud compute resources, reducing migration time that can quickly evaporate research grants.



Maintaining ownership of data improves regulatory compliance and protects IP, especially as it pertains to personal identifying information (PII), protected health information (PHI), and regulated medical and personal records.

SOLUTION ARCHITECTURE



SOLUTION SCENARIO

- Data is generated by next gen DNA sequencers that run on-premises or in hosted locations around the globe
- Using high-performance GPU instances in the cloud of choice, genome samples are processed to create actionable information
- Data is captured and stored in a scalable data warehouse for further analysis
- Cloud services like AI and Machine Learning from any cloud can now be used to analyze the data warehouse to drive actionable insights

SOLUTION BENEFITS

- Cloud adjacent data storage with <2 ms latency connections between your data and your applications
- Our services enable one copy of your data to be simultaneously presented to applications and cloud services used throughout your organization across multiple public clouds
- Faction's MCDS are compatible with your existing cloud and on-premises investments, so you can accelerate business outcomes from cloud-based data services including Artificial Intelligence (AI), Machine Learning (ML), and Business Intelligence (BI)

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