

Leading School of Medicine and Research Organization Supporting Healthcare Efficiencies

ABOUT THE CUSTOMER

Located in Northern California, this leading school of medicine and research organization supports cutting edge genomics research to support personalized medicine results and related analysis. In 2018, the IT team supporting the organization's data, infrastructure and applications embarked upon a program to take advantage of cloud efficiencies. Their robust environment includes the use of Google Cloud and an on-prem infrastructure at scale.

THE BUSINESS PROBLEM

As the cloud environment matured, the IT team realized their need for advanced services to support site reliability, security and compliance requirements along with runtime optimization. Additionally, they identified the need to have ongoing maintenance and support services of their operational eco-system.

BIARCA SOLUTIONS

- Conducted a comprehensive continuous security review and assessment of the Google Cloud Platform validating the applicability of workloads, design efficiencies, Identity Management, usage policies, and security vulnerabilities management to meet HIPAA compliance.
- Provisioned Google Cloud resources and cloud-native security fencing while deploying new workloads to meet service level and security policy requirements.
- Developed a site reliability strategy to migrate CI/CD pipelines to Google Cloud.
- Deployed CI/CD pipeline using container enabled technologies directly to high availability clusters.
- Assisted with cloud-native application migration using a managed services framework to achieve a high availability solution operating at scale.
- Developed connectors to move on-premise Oracle database to Cloud PostgreSQL.
- Ongoing maintenance and monitoring of source code base, libraries & tools for security vulnerabilities while performing remediation when necessary.

TECHNOLOGIES USED

- Google Cloud Platform (VPC, GCS, PubSub, StackDriver)
- Google Kubernetes Engine (GKE)
- Google Container Registry (GCR)
- Forseti Cloud Security
- Source Clear Security