Greenfield setup

Customer: A therapeutics company in immuno-oncology

Problem statement:
Currently, Customer is running their research data of more than 2 TB in on-premise setup and are facing multiple challenges when performing tests and other application validations due to constraints on scaling and performance validation.

The Solution:
Google Kubernetes Platform (GKE) helped Customers in their digital transformation journey with a highly efficient and cost-effective solution. A complete re-architecture of their current setup running in on-premise standalone virtual machines was planned with advanced technologies like Managed Kubernetes. Jenkins was implemented for the CI/CD pipeline for making sure integration of individual jobs, easier code deployment to production and effortless auditing of logs. Auto-Scaling was flawless and handling large data was much easier.

![Architecture diagram]

- Number of VM’s - 180+
- Number of applications migrated - 25+
- Approximate size of DB - 2TB
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The Results:

- Migration of all the containerized images to Managed GKE in Google Cloud helped achieve high availability and scaling.
- The customer was able to manage their complete application lifecycle and build lifecycle as a code; it additionally helped to meet required security compliance.

Tools and service used:
- Tools used - Istio, Jenkins, MySQL, Clam AV, Elasticsearch & GitHub
- Google services used - Compute Engine, Container Build, Google Kubernetes Engine, Container Registry, Cloud SQL, Stack Driver, Cloud Identity & Access Management, Cloud VPN, Cloud DNS, Cloud Load Balancing

Cloud platform:

Google Cloud Platform