

**Business Evaluation**

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| **Online health records site** | **Values** | **Immediate Goals** |
| Due to rapid changes in the healthcare and insurance industry, EHR Healthcare’s online health records software business has been growing exponentially year over year. | ● Provide highly available services to customers  ● Maintain regulatory compliance  ● Stay current on industry trends | ● Scale their environment  ● Adapt their disaster recovery plan  ● Roll out new continuous deployment capabilities to update their software at a fast pace  ● Provide consistent logging, monitoring, and alerting capabilities |

**Key business assumptions**

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| **Rapid changes and exponential growth in the industry will continue and analysis of these changes is necessary to the business** | **Strong focus on regulatory compliance, reduced latency, and excellent customer service required to meet business goals** | **On-premises legacy integrations with insurance providers will not be upgraded in the immediate future and will need to be supported as-is for now** |

**Technical Evaluation**

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| **Existing Environment** | **Technical Watch points** | **Proposed Solution** |
| Customer-facing applications are web-based, and many have recently been containerized to run on a group of Kubernetes clusters. | Compute  ● Containerized applications  ● Needs to run in the cloud and integrate with on-premises systems  ● Autoscaling, low latency  ● Robust logging, monitoring and alerting required | ● Anthos Clusters and Google Kubernetes Engine  ● Google Cloud’s operations suite (includes Cloud Monitoring and Cloud Logging) |
| Software is currently hosted in multiple colocation facilities. The lease on one of the data centers is about to expire. | Storage  ● Multiple databases including MySQL, MS SQL Server, Redis, and MongoDB | ● Cloud SQL (for MySQL and MS SQL Server data)  ● Memorystore for Redis  ● Mongodb Atlas on Google Cloud |
| Data visualization  ● Nonexistent or minimal | Data needs  ● Fast on-boarding of insurance providers and their data  ● Data Analytics needed to predict industry and health care trends  ● 99.9% availability for customerfacing data systems | ● Dataflow for bulk and stream processing  ● BigQuery for storage and analytics |