



#HEALTHCARE

# Revolutionizing Test Automation: Cutting Execution Time and Costs by Over 70%

The client is one of the leading healthcare providers in Asia, serving millions of patients across various countries. With a comprehensive portfolio of medical services and healthcare products, they are among the top healthcare institutions in the region and a significant player in the global healthcare market.



Revolutionising Test Automation

### The Need

The client was facing significant challenges with the execution time of their automation suite. Running over 2000+ UI and API tests took between 12 to 14 hours, creating a bottleneck in the release cycle.

Additionally, the costs associated with running these tests against cloud providers were escalating, making the current approach unsustainable.

The client sought a solution that would drastically reduce test execution time and costs while maintaining or improving the reliability of test outcomes.

### Our Approach



#### Stage 1 Optimize

By leveraging Kubernetes for orchestration and Selenium Grid for parallel test execution, the entire suite could be executed in under 60 minutes, a dramatic improvement over the previous 12-14 hour timeframe.



#### Stage 2 Cost Efficiency

The solution was optimized using Terraform, enabling a dynamic and scalable infrastructure that reduced reliance on expensive cloud resources, resulting in a more than 70% reduction in infrastructure costs.



#### Stage 3 Cloud Migration

The framework was designed to efficiently manage resources, balancing on-premises and cloud-based solutions to achieve the best performance-cost ratio.



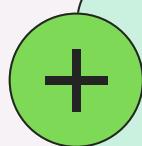
Qeagle is a leading provider of comprehensive test automation solutions, specializing in enhancing software quality and accelerating release cycles.



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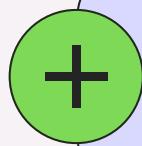
### Results Achieved

The implementation of Qeagle's solution led to substantial improvements in both the efficiency and cost-effectiveness of the client's test automation efforts:



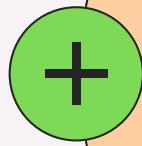
**60M**

The entire test suite, including retries, was completed in less than an hour.



**70%**

Compared to cloud providers, the new framework delivered significant cost reductions.



**35%**

The client achieved a 35% cumulative savings, with a 91% test success rate.

Qeagle's innovative approach to test automation not only resolved the client's immediate challenges but also laid the groundwork for ongoing efficiency and scalability. By optimizing the test execution process and strategically managing resources, the client is now positioned to deliver high-quality software with reduced costs and improved time-to-market.



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