

CASE STUDY:

IMPROVING
PERFORMANCE TESTING:
VERITAS AUTOMATA PROFESSIONAL
SERVICES' AGILE APPROACH

Mauricio Arroyave Panesso

Veritas Automata™

Overview

Headquartered in Indianapolis, Indiana, a key player in the clinical trial data industry has a mission to consolidate all clinical trial data on a unified platform. This case study delves into Veritas Automata Professional Services' collaboration with the clinical trial data company, which began in 2020. The partnership was initiated through recommendations from two managers with prior experience working with Veritas Automata Professional Services

Main Stakeholders

At the core of this collaboration effort, Mauricio Arroyave Panesso, the Quality Assurance (QA) Manager, played a pivotal role. Initially, the team was comprised of three Quality Assurance analysts and four developers. Currently, Veritas Automata Professional Services has a team of six QA Analysts and four developers.

Project Overview and Client Challenge

The client faced the challenge of modifying their application, which was implemented using .NET libraries, to accommodate performance testing. These libraries had become deprecated and needed to be replaced. The client required a solution that was both easy to implement and maintain, and was flexible enough to adapt to future challenges.

Veritas Automata Professional Services presented three different options to the client for addressing their performance testing needs, which included Gatling, K6, and JMeter. After a thorough evaluation, JMeter was chosen. Veritas Automata Professional Services then created 11 scenarios, designed to test the application's performance under different capacity conditions. JMeter's multiple postprocessors and plugins were utilized to generate results in various formats, such as charts, plain text, or CSV files for more comprehensive reporting.

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Team Collaboration

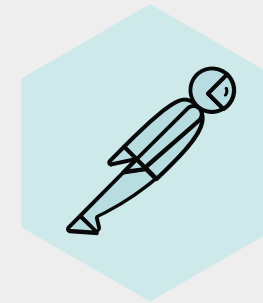
The project thrived on open communication between Veritas Automata Professional Services and the client. The clinical trial data company placed trust in Veritas Automata Professional Services to introduce and implement innovative solutions. This was a unique opportunity, given the client's deep familiarity with how the data was treated. Different approaches were explored to determine the most effective solution.

Technologies Used

Several tools and platforms played a critical role in the project. Azure DevOps was used for test case management, including design and execution, as well as performance testing. Postman was leveraged for API testing, while JMeter enabled the design and testing of performance scripts. The use of user variables and parameters allowed for the simulation of various load levels, and results were obtained in diverse formats and charts. Additionally, the scripts were exportable for use with other platforms.



Azure DevOps



Postman



Apache JMeter

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Reporting Tools to Measure Success and Impact

The project allowed for the tracking of information defined in the scripts, and multiple resources were tracked in Azure DevOps, including servers, memory, and the database itself. The project highlights how the iterative aspect of Agile methodologies can work, and that there are multiple technology options related to performance testing.

Conclusion

The collaborative effort between Veritas Automata Professional Services and the clinical trial data company resulted in more efficient and easily maintainable test cases, enabling the simulation of real usage for more accurate results in less than six months. Performance testing transformed from a once-a-year activity to on-demand testing, significantly enhancing the project's overall impact.

Veritas Automata Professional Services was able to successfully implement the project, resulting in improved performance testing capabilities. Veritas Automata Professional Services' flexibility brought substantial benefits and increased client satisfaction.

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Client Satisfaction and Testimonials

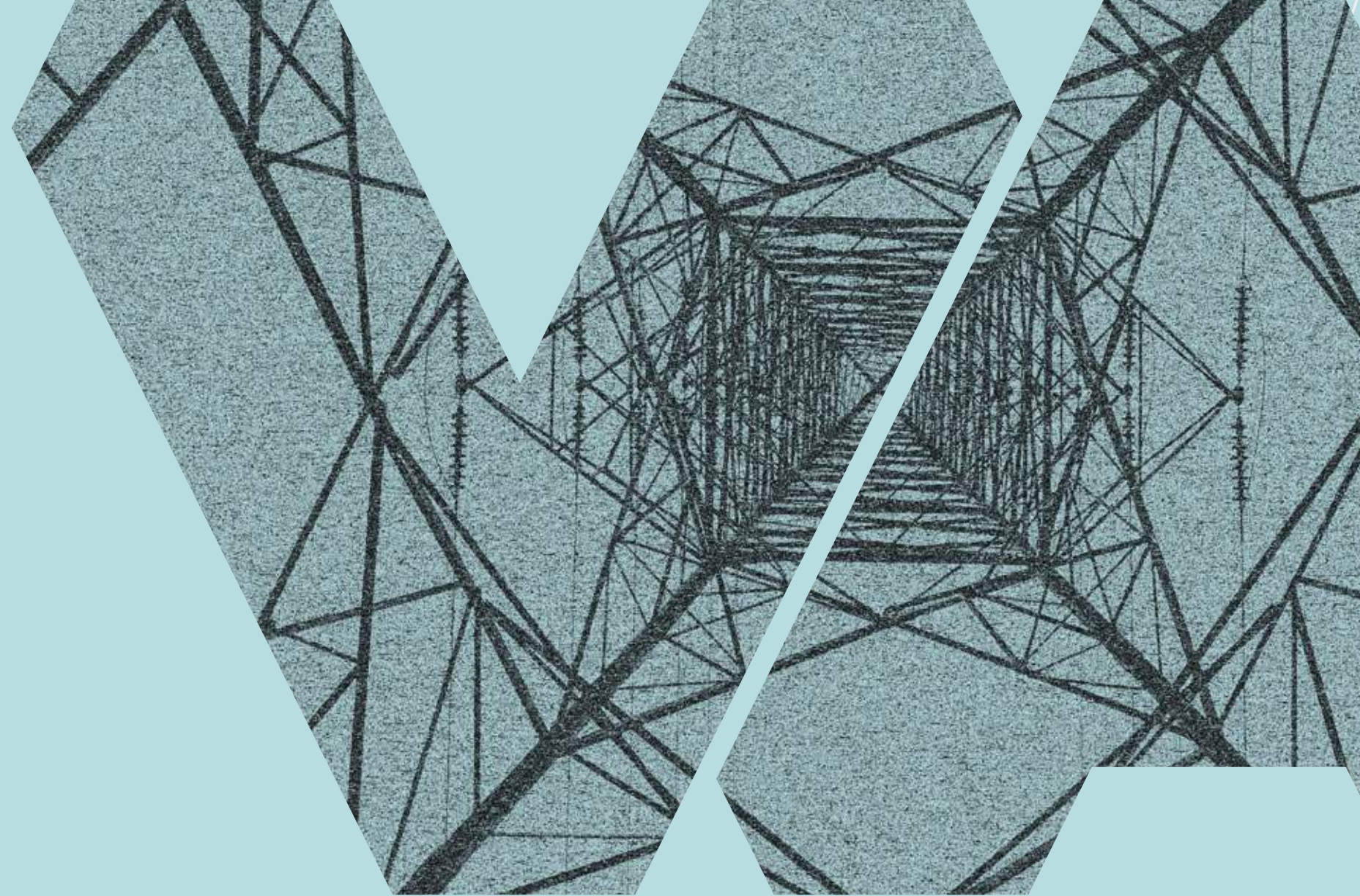
- “Generally, I am wary of putting my trust fully in an outsource partner, especially for a complete function like testing. As a software vendor, it’s critical to ensure that your product is effectively tested before rolling it out to your clients; missed bugs or issues can drastically impact the trust your customers have in you and your overall reputation. Working with Veritas Automata Professional Services has alleviated those fears. From the first day we engaged both the team and the management, they have been both professional and diligent in managing our software testing as if it is their own product.”
- “The best part of working with Veritas Automata Professional Services has been the seamless way they have integrated into the team and how they have managed both staffing and process. Veritas Automata Professional Services has managed our testing function with minimal overhead and seamless transition.”
- “When working with outsourced providers in the past, I have needed to provide very detailed instructions and close management of tasks. Veritas Automata Professional Services has not only provided exemplary service but they have also guided us on how to make improvements in our process – moving to the new performance testing tool is just one of those examples.”
- “We are looking forward to a continuing engagement with Veritas Automata Professional Services as our company and product set grows.”

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