

Looking for the limits in a last generation Free-Flow toll system

THE COMPANY: KAPSCH TRAFFICCOM AG

Kapsch TrafficCom is an expert in traffic management and offers intelligent solutions for toll collection, smart urban mobility, road safety and connected vehicles.

Kapsch strives for global leadership in terms of quality and innovation and therefore annually invests some 10% of its total revenue in research and development. The R&D centers of the Kapsch Group are constantly working to make new technologies marketable. Long-standing collaborations with scientific institutions and strategic acquisitions provide additional know-how.

THE CHALLENGE

Kapsch TrafficCom developed a set of free-flow toll systems worldclass, that includes sensor and the software to control it

One of the key software between this solutions is the customer back office (CBO). CBO is a CRM solution with objective of manage all the customer life cycle, starting from acquisition of the service, loading transactions, billing and payment

Kapsch development team needed a solution to analyze stress and performance of the system against a big transaction level and extreme working. They needed to face this without latency even in a high vehicular flow.

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Was a big challenge for Crowdar. We take local JMeter tests and converted them in a scalable and portable performance Framework able to work in a development environment, in a server on premise or cloud.

Javier Re
CEO Crowdar

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THE SOLUTION

Crowdar selected a Engineering testing team to implement a performance solution for Phoenix project (CRM Application)

During the initial process Crowdar made an extensive research and document all the services to be analyzed.

In parallel made the development of the performance solution using open source tools and docker. This solution allows to be executed on premise or cloud without any change.

With this solution we recreated the system as has been working with load and made many stress test to support customer needs, that was very demanding.

The delivery of this project was a real time monitoring system solution

After this initial project, Crowdar trained Kapsch team to expand performance test to another teams and application services. We continued working side by side with Kapsch team to complete business flow and to reach the ability of make performance test in a continuous way.

With this tool and as a result of the test we attain to reduce sensibly the application response times for critical scenarios. And also was used for the development teams as input for new developments ensuring performance requested

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With this scalable solution is possible to have a performance stack working in a few days and add value to our customer very soon.

Javier Re
CEO Crowdar

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HIGHLIGHTS

Duration: 3 month.

Jmeter scripts scenarios: 84 endpoints

Jenkins Jobs: 51 pipelines

Team: 1 Agile PM, 1 Automation Architect, 2 Automation Engineer, 1 Infrastructure Engineer.

Languages and tools: JMeter, Docker, Prometheus, Grafana, Nexus, Jenkins, Java, Rest-API, Azure, Ansible

Listeners: Oracle, Rabbit MQ, Windows Server, Linux Server, MS SQL Server, JMeter, Infrastructure