Mu Dynamics®

How Trusteer uses Blitz to test the performance of its Web access services

Introduction

Trusteer, the world's leading provider of secure Web access services needed a way to test the unique implementation of one of their largest customers. With their solution deployed by many of the world's premier financial institutions, Trusteer knew that any disruptions or downtime would not be acceptable. Their customers need to be confident in their deployment from day one.

The Challenge

The challenge, however, is to recreate the real traffic mix and varying loads of a specific customer to predict how the solution will operate in their environment with accuracy and precision.

Traffic can be generated by users from all different parts of the world and often spike to high levels during typical transaction times or market fluctuations. Trusteer needed a testing solution that could meet these demanding conditions – one that could deliver load testing in the cloud that was fast, easy and affordable, so it could be part of their development cycle.

The Solution

Trusteer, after reviewing various open source tools, found them not only difficult to set up and sometimes with poor UIs, but also unable to recreate the geographically disperse traffic loads found in Trusteer customer environments. They turned to Mu Dynamics, the leader in application load, performance and security testing, to help them understand exactly what a specific implementation would do in a customer's setting.

To deliver this innovative, self-service load, security and performance testing platform in the cloud, Mu Dynamics uses Amazon Web Services (AWS), CouchDB, and Heroku as the foundation for Blitz. This powerful architecture allows Blitz to support Trusteer, while hiding a lot of the complexity. This makes it easy for Trusteer to quickly and easily load test their APIs, web and even mobile services.

Under the hood, the CouchDB is the backbone of Blitz. Mu Dynamics runs its own cluster across the Virginia and California regions of AWS, with multi-master replications between the two regions, for optimal resiliency. They use the filtered-changes feed, multi-master replication and map/reduce functions, as well as the conflict mechanism and many of the design views to provide Trusteer relevant insights into what's happening during the actual load tests for their customer's implementations. The unique, multi-region deployment of AWS allows Mu Dynamics products like Blitz to accurately replicate traffic mixes and loads.
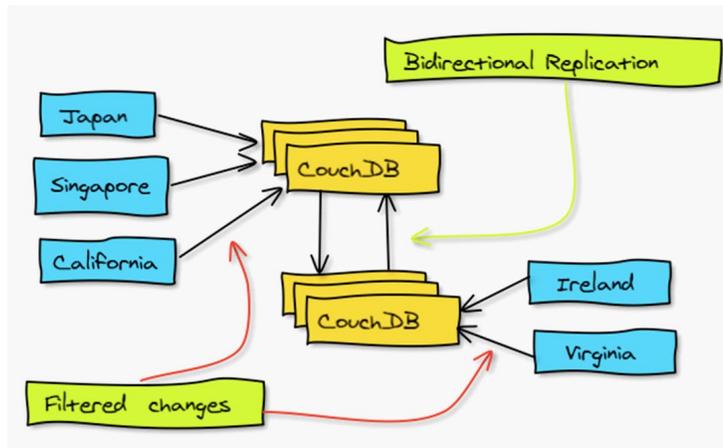
Innovative Infrastructure

"Now, with Blitz, we can quickly test our customer's specific set up to ensure our solution can handle whatever comes its way," said Shmulik Regev, VP and Chief Architect of Trusteer. "With hundreds of customers and over 22 million end-users, we need a testing solution that is as complete and scalable as our own – we found that with Mu Dynamics Blitz."

The sheer horsepower of Blitz, which is possible because of this infrastructure, not only makes the platform fun to use, it also helps Trusteer understand how their services will behave under the most demanding conditions. They don't have to try to deploy multiple instances to get the scale they need, which makes Blitz an innovative an authentic multi-tenant load testing solution in the cloud. As a result, Trusteer can improve quality of Service (QoS) and total cost of ownership (TCO), which is further supported by the cost-effective AWS pricing model.

Summary

The end result is that Trusteer now has a multi-tenant cloud load, security and performance testing solution in Blitz they can use to quickly identify and resolve issues in a specific customer's implementation, prior to roll out. With Blitz by Mu Dynamics, Trusteer can leverage all the power and efficiencies of the cloud to understand exactly what to expect when their solution is deployed in real-world conditions to ensure they can maximize the protection they can offer their customers against malware and fraud.

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