IDT

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THE DEVELOPMENT OF AWS-BASED AUTOMATED CONTINUOUS DYNAMIC APPLICATION MONITORING SOLUTION

EXECUTIVE SUMMARY

SavvyMoney partnered with IDT to develop and implement an automated monitoring solution for its frontend applications using Amazon CloudWatch canaries. The project aimed to proactively identify failures at the component level of the product's web interface by continuously simulating user interactions. The solution was designed around codified monitoring runbooks provided by the QA team and integrated with a corporate messaging system to ensure timely alerting to both incident response and dedicated operational channels.

IDT delivered a smart, effective monitoring solution that gave us real-time visibility into the performance of our frontend applications. Their ability to simulate user interactions and detect issues at the component level helped us catch problems before they reached our users. The integration with our internal tools made alerting seamless, and the whole process aligned perfectly with our QA standards. We strongly endorse IDT for any organization aiming to enhance the reliability of their applications through proactive and strategic solutions.

Michael York
VP, Information Security and DevOps
SavvyMoney Inc.

THE CHALLENGE

As part of its operational goals, SavvyMoney required more precise, automated monitoring of its web applications. After an analysis was performed, we identified room for improvement in the existing tools, which could limit the granularity needed to detect failures in specific components of the page, increasing the risk of undetected issues and delayed response. Considering further expansion, a proactive monitoring system was needed, so the user experience could be protected, and engineering teams would be alerted to any problem. A solution was required to simulate user behavior and provide immediate alerts in case of any component-level failure.

IDT SOLUTION

IDT designed and implemented a synthetic monitoring solution using Amazon CloudWatch canaries to simulate frontend user interactions. These canaries continuously tested application availability and functionality, ensuring that any malfunction—down to a single page component—would be detected in real time. The logic and structure of these tests were based on automated runbooks, allowing the monitoring to align closely with product requirements. Alerts generated by the canaries were routed to both the incident management team and the product team through the corporate messaging system, ensuring fast and targeted notification across relevant teams.

THE BENEFITS

With this solution, SavvyMoney achieved automated, continuous monitoring of its frontend applications, significantly improving its ability to detect and respond to issues. Failures affecting individual parts of the user interface could now be identified in real time through simulated user actions, reducing detection delays. The integration of QA-defined runbooks ensured that monitoring logic was directly aligned with business needs, while Slack-based alerting enabled immediate awareness among both incident and operational teams. This strengthened SavvyMoney's reliability posture and supported a smoother, more resilient user experience.

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