



OPCITO TECHNOLOGIES

# Real-Time Monitoring Automation For A Security Solution

## About The Customer

The customer is an upcoming cloud data security solutions provider and compliance management software. They have software solutions for cloud-native applications and infrastructure security. The customer organization is backed by leading Silicon Valley venture capitalists and renowned cybersecurity angel investors.

## Business Challenge

As a cloud data security provider, the customer wanted to automate uncovering data security loopholes by analyzing their customer's cloud account. The requirement was to show the security loopholes on the UI so that the end-user could take the necessary corrective action and avoid any security threats around these loopholes. Data analysis and identification of threats needed to be real-time irrespective of the data size involved.

## How Opcito Helped

Opcito's security experts developed an agent to be deployed in the end user's cloud account. The agent discovers resources, scans the data, and sends the metadata to the DevSecOps platform, where the data will be processed and displayed on the UI of the end-users. With this solution, the end-user can have multiple cloud accounts to monitor, and the results will be displayed on a single unified dashboard. The agent is deployed through the CloudFormation template. This agent gathers information and metadata of the cloud account and sends it to the platform through EventBridge. This data is processed and pushed to the database present on the customer platform. The APIs provide the data to be presented on the UI.

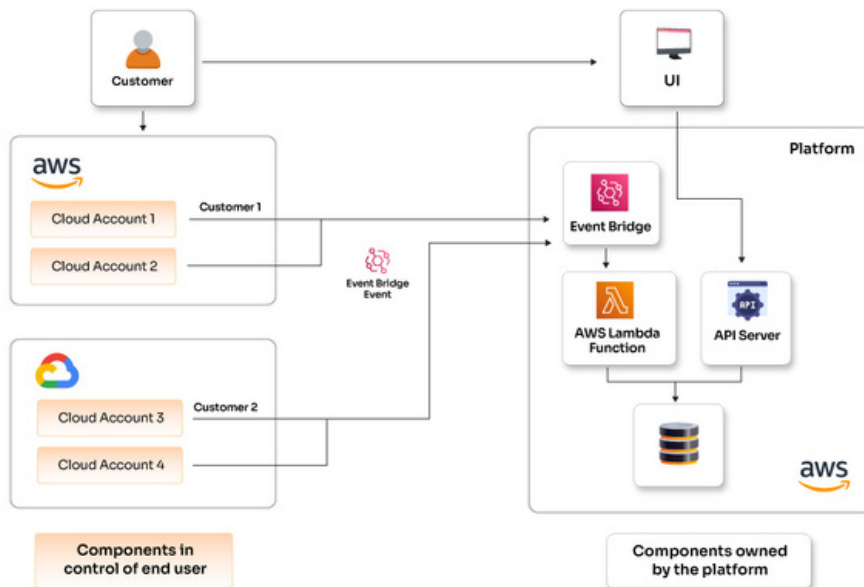
Opcito QA team analyzed different user scenarios & cases that end users may encounter in the cloud account. The QA team covered all the use cases to diagnose and correct possible errors. The agent continuously assesses the customer account for potential security loopholes and ensures possible threats are uncovered and reported. Test automation played a crucial role here, considering the complexity of the architecture. The test automation suites ensured zero downtime while the newer features were introduced.



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## Technologies, Tools, and Platforms used

PYTHON FASTAPI

AWS DOCDB

REACTJS

SELENIUM

EVENTBRIDGE

## Benefits

### ENHANCED SECURITY

Bolstered security with real-time analysis

### SIMPLIFIED MONITORING

Simplifies the overall monitoring process with a unified view for user convenience

### REAL-TIME THREAT DETECTION

Monitoring ensures that all the cloud instances are assessed for possible threats and flagged in real-time.

## About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.



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