



AT THE INTERSECTION OF FINANCE & SECURITY

WEAVING APPLICATION SECURITY INTO THE SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC)

"I love Contrast's technology. Because it is continuous, working in real time, Contrast has been exceptionally helpful identifying true false positives. This has saved my team a tremendous amount of time, freeing them up and allowing them to focus on other key initiatives."

SARAN MAKAM | DIRECTOR OF APPLICATION SECURITY
ENVESTNET | YODLEE

Industry: Digital Financial Services, Fintech,
Digital Banking

Investnet | Yodlee HQ Location: Redwood City, CA, USA

Challenge: Seamlessly and cost effectively aid developers in identifying and fixing application security vulnerabilities within their code early in the SDLC. Additionally, reduce the burden that development and security practitioners encounter by reducing the number of false positives reported.

Solution: Contrast Assess aids Investnet | Yodlee's development and application security teams by weaving security into its DevSecOps methodologies. Investnet | Yodlee also uses Contrast to supplement Penetration Testing.

Results:

- Significant reduction in the number of time-wasting false positives
- Increased developer productivity through reduced test-fix-redeploy cycle times
- Security woven into daily coding practices
- Reduced Penetration Testing costs
- Accelerated software time-to-market



OVERVIEW

Envestnet | Yodlee is a leading data aggregation and data analytics platform powering dynamic, cloud-based innovation for digital financial services. More than 1,000 companies, including 13 of the 20 largest U.S. banks and hundreds of Internet services companies, subscribe to the Envestnet | Yodlee platform to power personalized financial apps and services for millions of consumers. Envestnet | Yodlee solutions help transform the speed and delivery of financial innovation, improve digital customer experiences, and drive better outcomes for clients and their customers.

Saran Makam is the Director of Application Security at Envestnet | Yodlee, leading a team of global security professionals. Saran is responsible for managing the Application Security Program for multiple products and making sure that application security is integrated within the Software Development Life Cycle (SDLC).

“Our legacy AppSec tools require manual efforts to scan and triage an enormous and unmanageable number of false positives. We needed our Appsec Engineers to concentrate on targeting the real vulnerabilities in the code and fixing them quickly. Contrast Security allowed the Appsec Engineers to have a much better level of visibility and accuracy in pinpointing key software application vulnerabilities.”

SARAN MAKAM | DIRECTOR OF APPLICATION SECURITY.

CHALLENGES

SECURITY AND DIGITAL FINANCIAL INNOVATION

When it comes to financial services and innovation, security is paramount. That’s why Envestnet | Yodlee considers the impact to every key stakeholder to ensure that every product on its platform meets the most stringent security and compliance requirements.

Envestnet | Yodlee adheres to leading financial industry practices for security, privacy, risk, and compliance management. As a Federal Financial Institutions Examination Council (FFIEC) supervised Technology Service Provider, Envestnet | Yodlee follows strict security and risk management standards required to engage with consumers and their financial data. The company is supervised and examined by the Office of the Controller of Currency (OCC) and all major banking regulators, and has undergone nearly 200 audits by financial institutions over a recent 24-month period.

A key part of Envestnet | Yodlee’s security posture is a dedicated independent application security program integrated with its development and release lifecycle.

STOP CHASING FALSE POSITIVES

The company periodically conducted code reviews to make sure there were no vulnerabilities. Saran and his team wanted a better solution that could reduce the number of false positives, because triaging them wasted time and reduced efficiency. The team desired a security solution that could scale, augment and seamlessly integrate with the current toolset.

“Envestnet | Yodlee requires an application security framework which is repeatable, scalable, and can find and remediate vulnerabilities by using the best software security solutions. My team reviewed multiple vendors and chose Contrast Security because their solution was well received by our development and security teams, and because it works continuously and in real-time.”

SARAN MAKAM | DIRECTOR OF APPLICATION SECURITY.



TRANSITIONING TO DEVSECOPS

Envestnet | Yodlee has over 250 developers focused on continuous improvement, development and security of its platform.

Envestnet | Yodlee adopted Agile development and DevOps methods with the aim of getting software to market quicker. To build on that, they also chose to adopt a “DevSecOps” approach.

The intent of adopting a DevSecOps methodology is to execute on the belief that security and development teams are jointly responsible for bolstering security – essentially bringing development and operations together. This methodology introduces security much earlier in the application development lifecycle and minimizes vulnerabilities by weaving together development and security.

Companies adopting Agile and DevOps have discovered that even as they are moving toward more frequent code releases, software security tools have not kept pace with those approaches. Legacy tools cannot operate at the speed that DevSecOps requires. As a result, security has traditionally been left behind - viewed as a roadblock to rapid application development and not typically tied with Agile processes.

“In high speed organizations and in an ideal world, developers need to constantly check in code and get feedback immediately. Contrast has been a huge step forward in moving this much closer to reality.”

SARAN MAKAM | DIRECTOR OF APPLICATION SECURITY.

SUPPORTING PENETRATION TESTING

Contrast Assess was also used to supplement Envestnet | Yodlee's Penetration Testing tools. Contrast's dashboard and reports were shared with internal Penetration Testing team members. These highlighted key vulnerabilities and provided immediate and actionable recommendations to triage.



"We used Contrast along with our other penetration testing tools. The Contrast reports highlighted vulnerabilities found in the code that we shared with the group. This really helped rapid application development."

SARAN MAKAM | DIRECTOR OF APPLICATION SECURITY.

Contrast Security utilizes the AWS Core Cloud Services such as EC2, Auto Scaling Groups, VPC, and RDS to provide High Availability and Elastic Scalability to meet our customers changing security workloads. Our customers have challenging requirements when choosing a security solution and our partnership with AWS allows us to provide the performance and compliance requirements our customers demand.

Contrast Security utilizes AWS Encryption Services, such as Key Management Services and Amazon Certificate Manager to keep data confidential in transit and at rest. Contrast Security also leverages AWS Lambda serverless solutions to build cloud native products that power data intelligence feeds to our customers worldwide.

RESULTS

Customer business benefits:

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As a fintech company, increasing the number of accounts and elevating the customer experience are a major focus for Envestnet | Yodlee. By using Amazon Web Services (AWS), the company was able to achieve these goals with the flexibility, reliability and scalability that AWS provided. The AWS offerings have helped the company launch and integrate new applications quickly and effectively, accelerating time-to-market and providing a key competitive advantage. Implementing Contrast Assess as part of their DevSecOps initiatives enabled Envestnet | Yodlee to further integrate security into existing Agile and DevOps workflows and tools. In turn, that allowed Envestnet | Yodlee to bring their secure financial software solutions to market faster and with greater confidence.



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Contrast Security is the world's leading provider of security technology that enables software applications to protect themselves against cyberattacks, heralding the new era of self-protecting software. Contrast's patented deep security instrumentation is the breakthrough technology that enables highly accurate assessment and always-on protection of an entire application portfolio, without disruptive scanning or expensive security experts. Only Contrast has sensors that work actively inside applications to uncover vulnerabilities, prevent data breaches, and secure the entire enterprise from development, to operations, to production.

