

Balbix Enables Cavium to Predict and Proactively Mitigate Breach Risk

Protecting Cavium's intellectual property (IP) is critical to long term competitive advantage.

Cavium products are used in a wide variety of networking, data center and wireless products – from the enterprise data center to access and service providers. Protecting intellectual property (IP) is critical to Cavium's long term competitive advantage in the dynamic semiconductor and networking industry. In order to ensure that its designs and IP are protected, Cavium needed greater visibility into the location of all its IT assets across its network. Once those assets were identified, Cavium wanted to be able to predict what risk, if any, those assets created for the business.

"The ability to identify, characterize, and inventory IT assets is not only key to managing our business risk, it is vital to ensuring we continue to innovate in a competitive field," says Ted John, VP of Infrastructure at Cavium. "We wanted to be able to predict potential breaches before they became risk factors."

Balbix continuously discovers and tracks every enterprise asset.

In the first phase of the project, Cavium worked with Balbix to assess the company's IT inventory and resulting security posture. Traffic capture was performed by easy-to-deploy appliances that continuously discovered and monitored all devices, apps and users across hundreds of attacks vectors (including IoT, cloud and third-party), as well as indicators of risk. Once that was achieved over several weeks, Cavium began to leverage Balbix's BreachControl™ platform to automatically and continually predict its breach risk and calculate resilience.



Cavium, Inc. offers a broad portfolio of infrastructure solutions for compute, security, storage, switching, connectivity and baseband processing. Cavium's highly integrated multi-core SoC products deliver software compatible solutions across low to high performance points, enabling secure and intelligent functionality in enterprise, data center and service provider equipment. Headquartered in San Jose, CA with design centers in California, Massachusetts, India, Israel, China and Taiwan, Cavium is the recipient of numerous industry and business awards, including the Deloitte Technology Fast 500.

"With the predictive insights Balbix BreachControl provides, we are automatically and continually assessing the likelihood of a breach in our environment," notes Smith. "But just as importantly, we identify the assets most at risk, prioritize them by business impact, and get prescriptive fixes to instantly apply."



Balbix provides a real-time heat map to predict breaches.

Using the data constantly gathered from the network, Balbix BreachControl calculates the breach likelihood and impact for every device, app and user across Cavium's entire enterprise.

Predictive insights and prioritized actions, along with prescriptive fix recommendations, are created and presented via a dashboard that visually highlights Cavium's risk profile and actionable mitigation fixes. The dashboard includes an interactive and searchable risk heat map to help the Cavium team efficiently identify the areas of highest risk. Custom, role-based views of Cavium's risk heat map are created for the security team, the VP of Infrastructure, and executive leadership.

Critical assets are prioritized with fixes prescribed; time + impact is optimized.

Balbix has enabled Cavium to take a proactive, prioritized approach to securing its vital assets. Actionable insights and fixes are provided on the BreachControl dashboard as a prioritized list based on business risk, so the security team can quickly and clearly address the most critical assets to security risk.

With time and resources at a premium, Balbix's automated predictions and prioritized, prescriptive fixes enable Cavium's security team to quickly raise its security resilience and maturity level. An added benefit is that IT compliance is significantly simplified going forward, as the Balbix solution monitors the network and all IT assets 7x24x365 and constantly creates prioritized actions to maintain security and compliance.

"With the insights and intelligence we gain from Balbix, our team always knows which systems and gaps we must address first," concludes John, "And that lets us focus on the assets and threats with the greatest impact to our security posture."



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Continuously discovers and monitors all devices, apps and users across hundreds of attack methods and indicators of business



Proactive approach to ensuring its vital assets are secure. The actionable insights provided via the dashboard provide visibility into every single system in the environment addressing security risk.

"Balbix allows us to get ahead of our threat environment by proactively identifying our most significant sources of IT risk and prioritizing them for mitigation...so we are able to focus our limited security resources for the most impact. As a result, our team has been able to increase Cavium's security maturity level."

Ted John
VP of Infrastructure, Cavium