SolarEdge Information Security Matures with the help of Cymulate

Organization

SolarEdge is a global leading Photovoltaics (PV) inverter manufacturer that has revolutionized the solar industry by inventing a better way to collect and manage energy in PV systems. By deploying world-class engineering capabilities and with a relentless focus on innovation, they create smart energy products and solutions that power our lives and drive future progress.
SolarEdge is a global, publicly traded company headquartered in Israel, they have 3000 employees, and installations in 133 countries across five continents.

SolarEdge Information Security
The information security department is led by Dror Hevlin. As the first CISO at SolarEdge Dror built the team, and together with them designed and built the company-wide security architecture based on existing and new tools and functions. Like many companies SolarEdge faces financially motivated cyber-attacks including ransomware, attempts to steal sensitive information and disrupt operations for the purpose of extortion.

Business Challenge

SolarEdge security is tasked with safeguarding the intellectual property and the business operations of the company. This includes manufacturing floors and PV maintenance networks, in addition to their corporate IT environment.

Operational disruption, reputation impairment or theft of intellectual property can have direct financial impact on the company. The SolarEdge network connects with various suppliers and customers within the company's ecosystem, compounding the necessity for security against supply chain attacks that may originate from business partners.

Already during the build out of the security architecture the security team started to look at testing methodologies that would enable them to validate their security effectiveness, from both an end-to-end perspective of the architecture, down to the operations and configuration of individual security controls.

Challenge
As the first CISO of SolarEdge to build the team, and the security architecture and be confident in the technologies that were deployed.
To be able to assure security efficacy as we continue to build our capabilities.

Solution
Cymulate Continuous Security Validation enables SolarEdge to challenge, assess and optimize their security controls and architecture as they continue to develop their capabilities.

Benefits
SolarEdge are able to quantify and maintain acceptable risk by constantly improving their security posture against threat evolutions.
They gain the confidence they require to rapidly build up their security capabilities.

Solution

At the time the security team at SolarEdge was small, so they looked for a platform that would automate security testing. Led by Sagi Tanami, head of security operations the team evaluated breach & attack simulation products, auto pen-testing and other solutions including Cymulate Continuous Security Validation. SolarEdge decided to move forward with Cymulate based on how simple it was to perform security control validation out-of-the-box and how comprehensive the assessments were. The deployment took a few hours and they gained immediate value from the platform on the first day.
Dror summarizes their decision. "We chose Cymulate for its comprehensiveness and simplicity of use. Being SaaS based it was easy to deploy and very low on maintenance. I was looking for a solution to optimize our security controls that would provide us immediate value and positive ROI on our efforts and that is exactly what Cymulate delivered". Sagi goes on to say that after using the platform he learnt that not only was it easy to use, it also provided extreme flexibility to zoom-in and investigate protections to specific stages in the kill chain or to validate the effectiveness of their controls against specific ATT&CK techniques and techniques commonly used by specific APT groups.

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> *As the first CISO of SolarEdge I had to build up the team and the security architecture fast. Cymulate has enabled me to benchmark and improve, and gain confidence in our results as we continue to build our capabilities Cymulate provides time to value in days and this value increases as we incorporate it into more aspects of our operations.*
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> Dror Hevlin, CISO, SolarEdge

Benefits

Together with Cymulate, SolarEdge has developed a continuous security validation program that assures operational effectiveness and enables ongoing optimization of their security controls, Sagi explains "We gain confidence in our operations by knowing at any given point in time that everything is working as they should be, we leverage the automation and get notified if a new threat or technique puts us at risk and requires attention " Sagi also praises Cymulate customer success engineers who supported the program, "we work with many vendors, and when I compare none of them are providing the quality support that Cymulate delivers." As they continue to build out their security controls and capabilities, SolarEdge has incorporated Cymulate in their product selection process, comparing the products to a consistent and broad set of attack scenarios in production enables them to choose the best product for their environment. Dror notes, "we are in the process of replacing a key control in our architecture and the results of Cymulate testing are key in the decision process, before we had Cymulate we would not be able to perform such rigorous testing prior to procurement." Looking forward, SolarEdge are building their internal red teaming capabilities. By using Cymulate and creating their own attack scenarios they already gain tremendous adversarial knowledge. After trialing the Cymulate Purple Team module, Sagi is convinced that it will enable them to perform frequent purple team exercises, develop scenarios unique to their environment and develop their threat hunting and incident response capabilities. Dror summarizes, "At our current level of matureness, Cymulate provides us capabilities to accomplish things that we would not otherwise be able to get done. It gives us confidence in our security tools, I know what my current risk level is and can compare that with our risk tolerance, and it does this daily without creating any additional effort on the team."

About Cymulate

With a Research Lab that keeps abreast of the very latest threats, Cymulate proactively challenges security posture end to end, automatically and continuously, allowing hyper-connected organizations in all maturity levels to avert damage and stay safe. Founded by an elite team of cyber researchers with world-class experience in offensive cyber solutions, Cymulate is trusted by hundreds of companies worldwide, from small businesses to large enterprises, including leading banks and financial services. They share our vision to be the gold standard for security professionals and leaders to manage, know and control their Cybersecurity Posture. Today it's simple for anyone to protect their company with the highest levels of security. Because the simpler cybersecurity is, the more secure your company-and every company-will be.

Contact us for a live demo, or get started with a free trial

Start Your Free Trial