

Ensuring Continuous Security & Compliance For Movano's AWS Accounts

GAUNTLET CASE STUDY

Executive Summary

Movano, a med-tech company based in Pleasanton, California, approached Deep Armor to help them establish a strong security posture for their Evie Ring – a smart ring created specifically for women's health.

As a Class-II medical device, the Evie Ring is required to be compliant with the US Food & Drug Administration's (USFDA) 510(k) Premarket Cybersecurity Guidance, and also demonstrate conformance with the HIPAA guidelines.

Deep Armor has been working hand-in-hand with Movano, helping them navigate the complex security requirements from the USFDA, one of which was to ensure continuous security assurance for Movano's AWS cloud. With Deep Armor's consulting services & Gauntlet, Movano successfully completed the 510(k) submission procedures with the FDA.

Challenges

1. The Evie Ring lives and operates on the wearer's body, collecting a wealth of personal and health information. Naturally, security and privacy are of utmost concern.
2. The FDA's cybersecurity guidances have matured significantly over the years, requiring medical device manufacturers to address threats affecting the device, mobile/web apps, cloud, & wireless protocols

Director of Cloud at Movano:

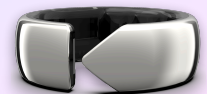
Prior to Gauntlet deployment, we only knew that there are cyber security vulnerabilities that we must deal with to meet compliance requirements, but we had no idea where to start and what the direction is



MOVANO
HEALTH

Movano is a medical device company developing wearable solutions that empower people to take ownership of their health through trustworthy data and relevant insights. The

Movano Evie Ring is the only smart ring created specifically for women.



Why Deep Armor

The Evie Ring is Movano's first product launch. The company, therefore was looking for a reputed cybersecurity partner for holistic security assessments and compliance audits. Movano was aware of Deep Armor's high quality cybersecurity work on other medical devices in the past, and our interactions with the USFDA on the 510(k) Cybersecurity Guidances. These factors helped Movano in choosing to work with Deep Armor for security & compliance activities for the Evie Ring.

Solution

Deep Armor drew a multi-step approach for the end to end security of Movano's product and their AWS infrastructure. Cloud deployments change often, exposing the customer's environment to new security threats. Deep Armor's Gauntlet was well suited to Movano. Running over 300 security checks everyday, Gauntlet helps discover and alert the Movano cloud team to any vulnerabilities that could be exploited publicly. Movano has subscribed to HIPAA and GDPR compliance dashboards, and these reports are updated everyday - helping Movano establish a good baseline and stay compliant.

Director of Cloud at Movano:

Gauntlet scanning reports give us clear actionable issues that we can work on to address majority of security vulnerabilities. It only reports the issues, but also gave recommendations on what actions to take.

Results & Benefits

Within a few weeks of deployment, Gauntlet helped Movano identify several critical and high rated vulnerabilities in their AWS configurations. The cloud team quickly remediated these gaps, preventing public exploitation which would have resulted in significant damages to Movano financially and from a brand reputation perspective.

Gauntlet continues to maintain a high security bar for Movano's AWS accounts, while also meeting the regulatory & compliance requirements from the US FDA, HIPAA and GDPR.

Director of Cloud at Movano:

I think the entire feature set itself has significant impact on our security posture, but specifically, the continuous reporting is extremely valuable for us to track new issues, especially during development process when our AWS environment is very dynamic.



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aws
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ABOUT DEEP ARMOR

Deep Armor is an award-winning cybersecurity firm and a trusted partner to over 40 companies worldwide. Our customers include Fortune 100 companies such as Cisco and Intel, and a large number of small & midsize businesses.

Deep Armor's Gauntlet has helped discover hundreds of vulnerabilities, and save millions of dollars in legal & reputational damages.