Global bookmaker discovers vulnerability that previous tests had missed

Background:

As a Tier-1 bookmaker with global operations, the client was a considerable target for hackers. Over the years, the client had their individual applications and infrastructure tested, as-and-when they were released. However, because traditional penetration tests focus on an single app in isolation, it was never possible for the client to test if all these apps worked in concert.

OnSecurity were invited to provide ongoing testing of their entire exposure for six months, this included all their sports-betting, gaming and casino apps along with the external infrastructure that supported them.

Our Approach:

By working manually across the whole ecosystem as a hacker would, our experienced team could understand how separate systems behaved relative to each other. By intuitively investigating these relationships a number of issues were identified that had been missed by previous tests, one crucial vulnerabilty in particular was discovered, not in the client assets but in a third-party service that underpinned them.

The team fed a specially crafted payload into all the affected apps and tracked the impact over time. By studying how the data flowed across several applications, a significant Denial of Service vulnerability was revealed. Had this vulnerability been exploited by a malicious actor they could have completely shutdown of all the clients sports betting operations, as well as that of most tier-one bookmakers worldwide.

Outcome:

Traditional point-in-time testing of individual apps in isolation had allowed a critical vulnerability to lay undetected by an entire industry for months, if not years. Because of the unique 'hackers eye view' OnSecurity testers had of the ecosystem surrounding the client's apps, we were the first pen-testing firm to identify this critical weakness.

We provided actionable advice to the client who communicated the finding and recommendation to the third party service provider, who resolved the issue immediately.

Key benefits

How OnSecurity will improve dectection in your business:

- Broader, more realistic tests will reveal your true vulnerabilities.

- Each testing team combines the skills of a minimum of three experts.

- Testers are highly-qualified, and are UK-based.

- Security issues can be monitored in real-time, allowing you to react quickly to reduce risk.

About OnSecurity

OnSecurity ditches the overhead of traditional penetration testing firms with a simple online interface.

This puts the client back in the driving seat allowing them to schedule tests as and when they need them.

Now you can work flexibly with a CREST certified providor for a fraction of the usual cost.

Book a demo today:

+44 (0)20 3289 6710

contact@onsecurity.co