

GOSECURE CASE STUDY

BIOPHARMACEUTICAL COMPANY

A PENETRATION TEST TURNED REAL-WORLD THREAT SIMULATION

FROM FALSE ALARM TO FULL DEFENSE: HOW GOSECURE TITAN® MXDR PROVED UNBREAKABLE

BACKGROUND

A security-conscious biopharmaceutical organization using GoSecure Titan® Managed Extended Detection and Response (MXDR) sought to evaluate the strength of its cybersecurity posture through a penetration test. Unlike traditional, pre-announced tests, this engagement was designed to mirror a real-world attack. The Red Team launched the simulation without notifying GoSecure's Security Operations Center (SOC), creating a scenario that would test the platform and team under authentic threat conditions.

The expectation was simple: observe how well the security systems responded to an unanticipated internal threat. What unfolded, however, far exceeded expectations.

Importantly, the organization engaged this simulation while also using another third-party security provider, setting the stage for a direct comparison.

SOLUTIONS

The moment the Red Team initiated lateral movement through a testing machine, GoSecure Titan® MXDR flagged the anomaly. Unaware that the activity was simulated, the SOC responded as if facing a live threat: isolating the machine, halting lateral movement, and shutting down the system — all within minutes.

The Red Team, believing they had encountered a technical issue, spent nearly two days attempting to resolve what they assumed was a failed deployment. Only during the post-mortem did they realize that GoSecure's real-time defense had neutralized the simulation before it could even begin.

This pivotal moment shifted the scope of the engagement. Rather than terminating the test, GoSecure leadership and the client transitioned to a white-box assessment, facilitating collaboration between the SOC and Red Team. Together, they:

- Identified detection blind spots
- Optimized response workflows
- Produced a detailed improvement roadmap with actionable insights

While GoSecure's MXDR continued to demonstrate superior detection and response, the organization's other security provider failed to detect or flag the activity.

BENEFITS

This collaborative assessment highlighted the value of integrating offensive and defensive capabilities within a single security ecosystem. As a result, the organization:

- Transitioned full management of its cloud security operations to GoSecure
- Strengthened detection, response, and incident containment capabilities
- Benefited from seamless teamwork between GoSecure's SOC and Red Team
- Gained a more resilient, proactive cybersecurity framework

The engagement reinforced a vital truth: when detection and testing operate in harmony, organizations move beyond reactive security. They become unbreakable.

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GoSecure is a recognized cybersecurity leader and innovator, pioneering the integration of endpoint, network, and email threat detection into a single Managed Extended Detection and Response (MXDR) service. The GoSecure Titan® platform delivers predictive multi-vector detection, prevention, and response to counter modern cyber threats. GoSecure Titan® MXDR delivers rapid response and active mitigation services that directly touch the customers' network and endpoints. For over 20 years, GoSecure has been helping customers better understand their security gaps and improve their organizational risk and security maturity through MXDR and Professional Services solutions delivered by one of the most trusted and skilled teams in the industry. To learn more, please visit:

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