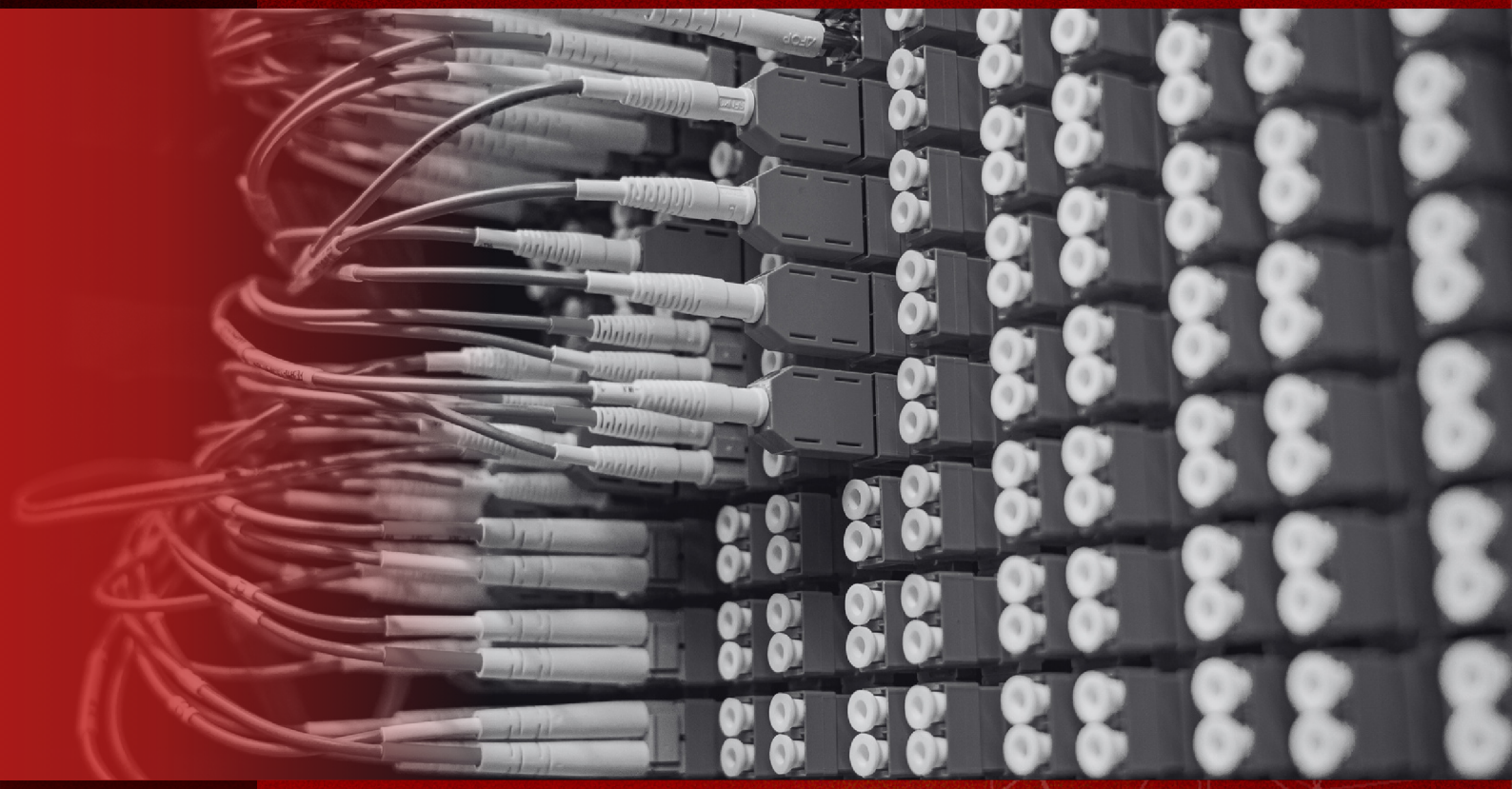
CYBOTS

CYBER THREATS DON'T SLEEP. **NEITHER DO WE.**

CASE STUDY

SECURITY CERTAINTY UNDER REGULATORY PRESSURE

Validating security controls across a critical telecommunications environment when there is no room for uncertainty.



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FROM REGULATORY PRESSURE TO SECURITY CONFIDENCE

Identifying and addressing security gaps before they become operational or compliance concerns.

Client Background

A major mobile network operator in Malaysia provides critical telecommunications infrastructure supporting millions of subscribers, enterprise customers, and national connectivity services.

As a backbone of digital communication, the organization plays a vital role in enabling mobile connectivity, data services, and digital ecosystems; making operational resilience and security non-negotiable.

Industry Context: Telecommunications as Critical Infrastructure

Telecommunications providers are among the most targeted sectors globally due to:

- High-value network access (entry point into broader digital ecosystems)
- Massive volumes of user data and metadata
- Interconnected infrastructure across regions and partners
- Dependency from governments, enterprises, and consumers

Threat actors, including nation-state groups, often target telecom providers to:

- Conduct surveillance and data exfiltration
- Disrupt critical communications
- Use telecom networks as a gateway for broader attacks

In this environment, even a small undetected compromise can scale into a large-scale operational or national risk.



The Operational Problem

The organization faced a time-critical regulatory requirement, needing to validate its security posture and submit findings within a strict 3-week deadline.

Key challenges included:

- Limited time for comprehensive assessment
- Need for accurate, defensible results for regulatory submission
- Lack of full visibility into potential hidden threats
- Risk of operational disruption if threats remained undetected

The challenge was not just speed; it was delivering certainty under pressure.

Why Traditional Approaches Failed

Conventional security assessments were not built for this scenario:

- Manual processes could not meet compressed timelines
- Fragmented tools limited visibility across systems
- Point-in-time testing failed to identify existing compromises

This created a gap between what was reported and what actually existed in the environment, increasing regulatory and operational risk.

THE CYBOTS APPROACH:

Rapid, AI-Driven Security Validation

Cybots deployed a **high-speed, AI-driven Compromise Assessment**, designed to **deliver both depth and speed without compromising accuracy.**

The approach focused on:

- Identifying existing compromises, not just vulnerabilities
- Leveraging AI-powered forensic analysis
- Validating findings with expert investigation

Execution Timeline

Cybots executed a tightly coordinated assessment:

RAPID DEPLOYMENT AND INSTALLATION

- Agents deployed across 140+ machines within days

DEEP ENVIRONMENT ANALYSIS

- AI-driven analysis of system behaviors and anomalies
- Correlation across endpoints to detect hidden threats

ACCELERATED REPORTING

- Full analysis completed within 2 days
- Comprehensive report delivered within 24 hours



Outcome

The organization achieved clear, evidence-based visibility into its environment within an extremely compressed timeframe.

Key outcomes included:

- Rapid validation of security posture
- Identification of potential risks and exposures
- Delivery of actionable remediation insights



Business Impact

Cybots enabled the organization to move from uncertainty to control:

- Successfully met regulatory submission requirements within deadline
- Reduced risk of undetected threats impacting operations
- Strengthened confidence among leadership and stakeholders
- Ensured continuity of critical telecommunications services

