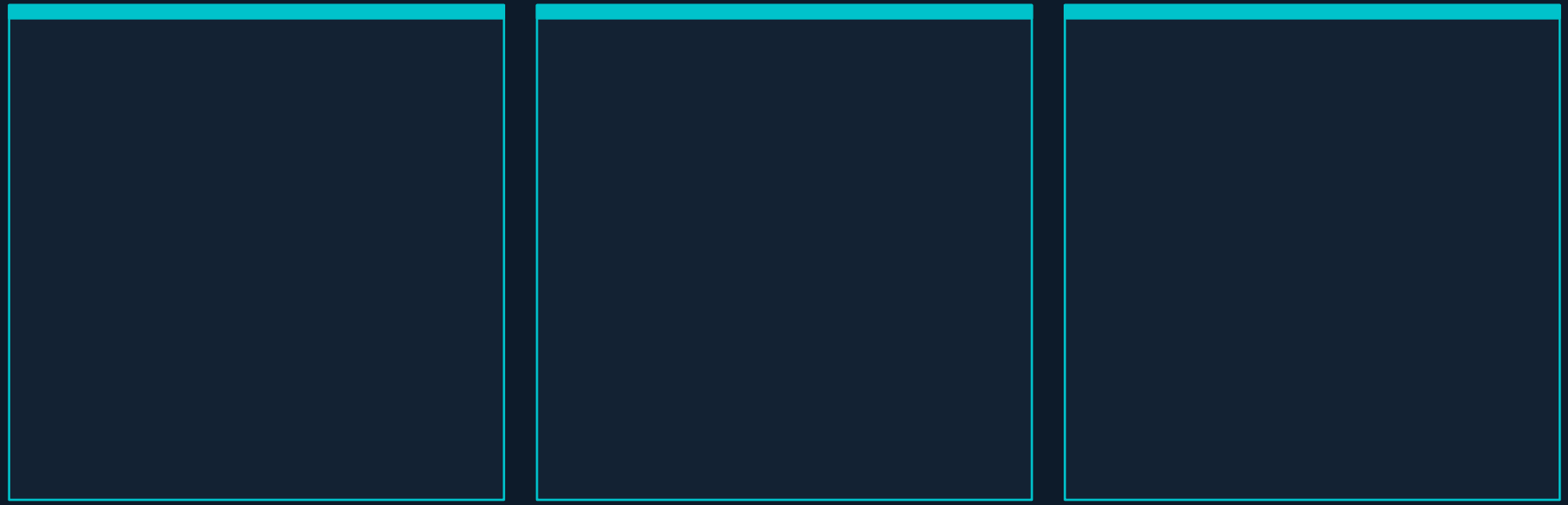
Running an Effective Vulnerability Management Program

An InfoSec Practitioner's Guide

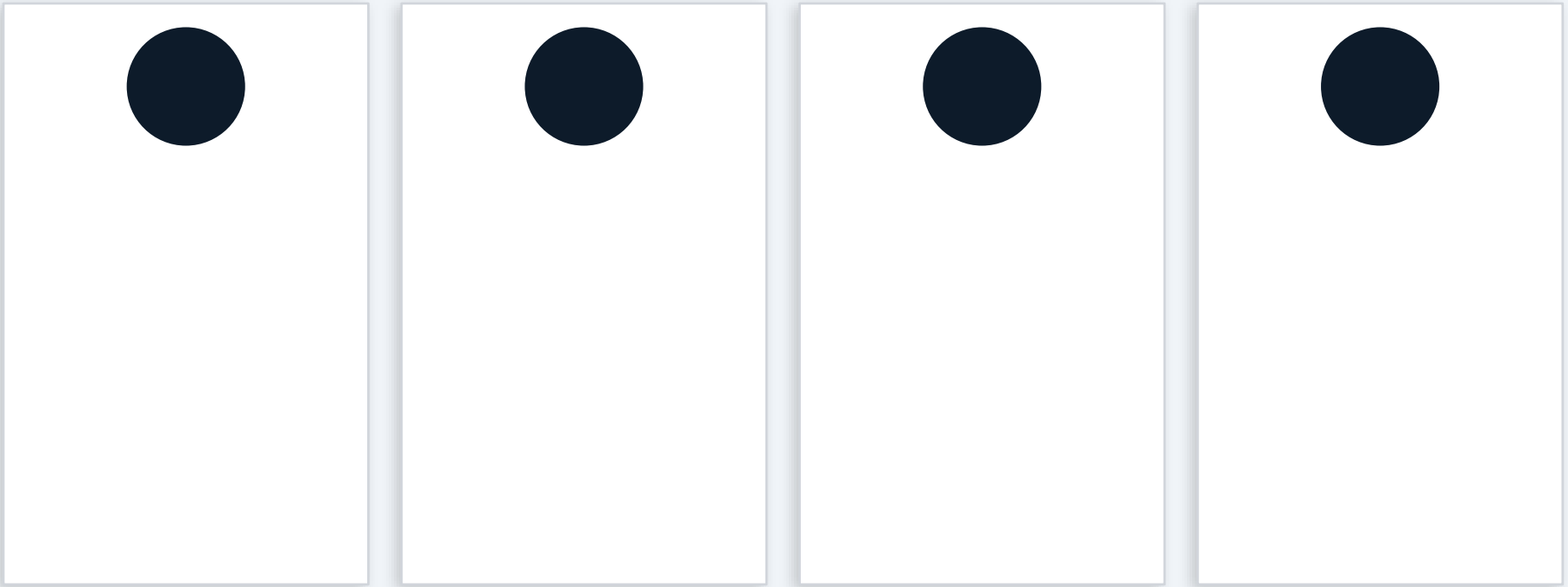
Rich Ingersoll

AGENDA

What Is Vulnerability Management & Why It Matters



Building Blocks of a VM Program

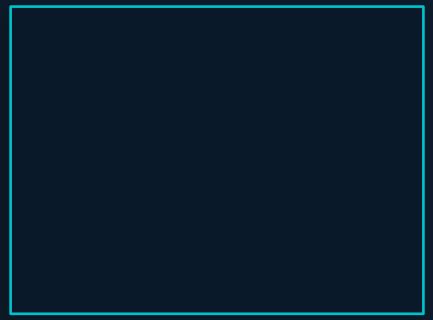


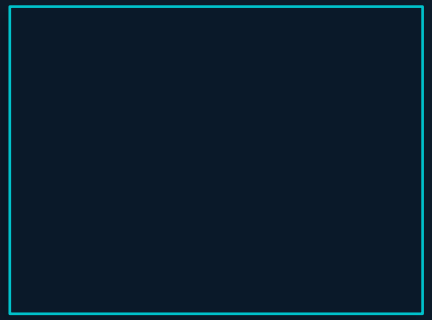
Risk Score = f(

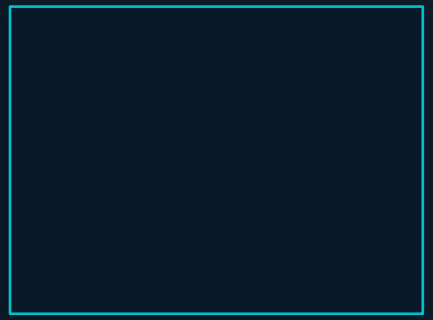
CVSS Score	*Useful baseline, not sufficient alone*
Exploitability (EPSS)	*How likely is active exploitation?*
CISA KEV Catalog	*Known exploited vulnerabilities in the wild*
Asset Criticality	*Crown jewels vs. dev sandbox?*
Data Sensitivity	*PII, PCI, PHI exposure?*
Exposure / Reachability	*Internet-facing vs. isolated?*

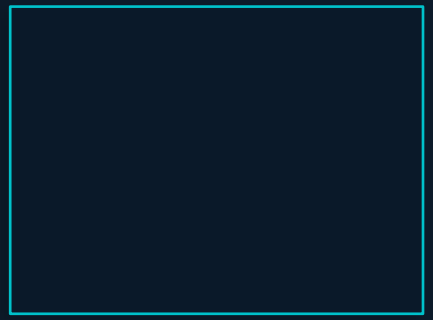
From Discovery to Resolution

Measuring What Matters

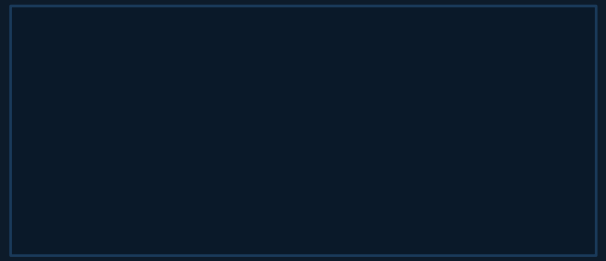


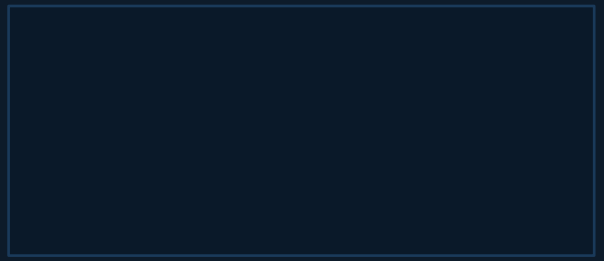


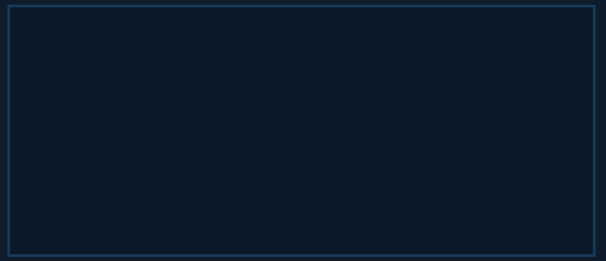




Tailor Reporting to Your Audience



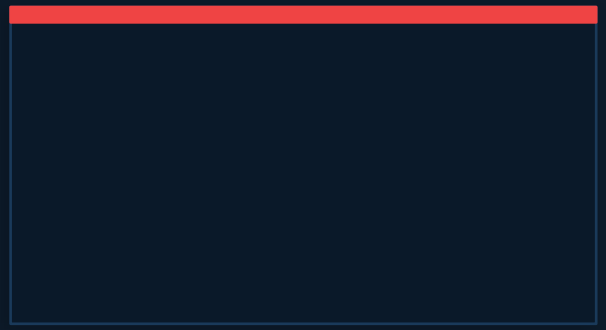
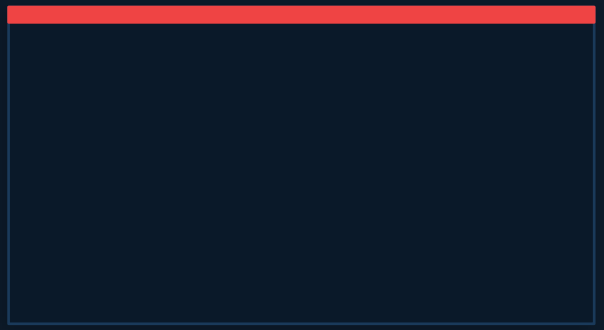
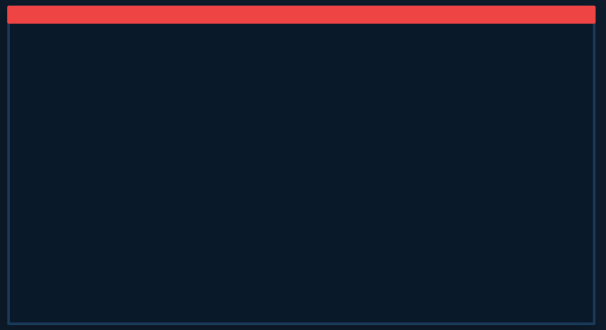
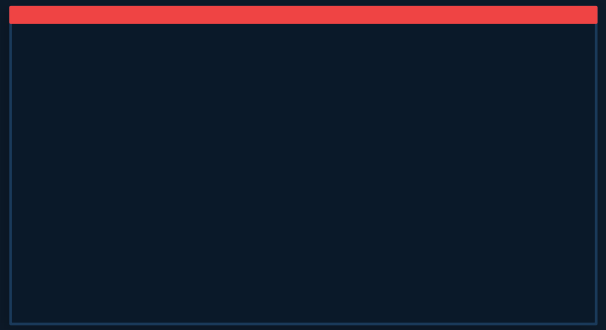
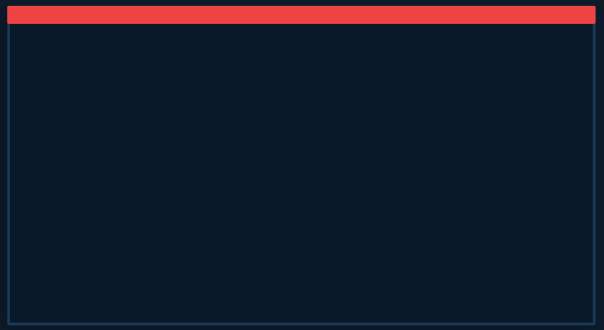
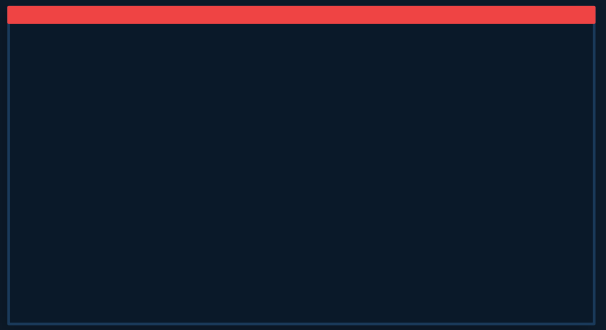




Program Structure & Compliance Alignment

VM Maturity Model

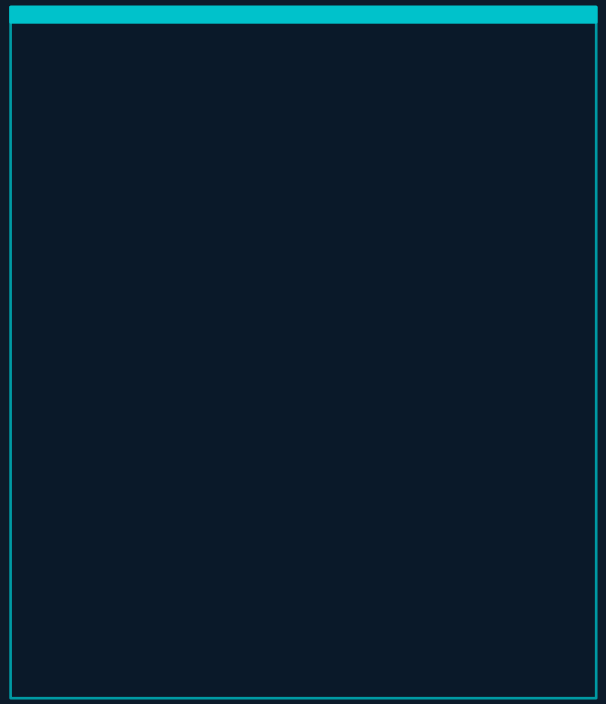
What Breaks VM Programs

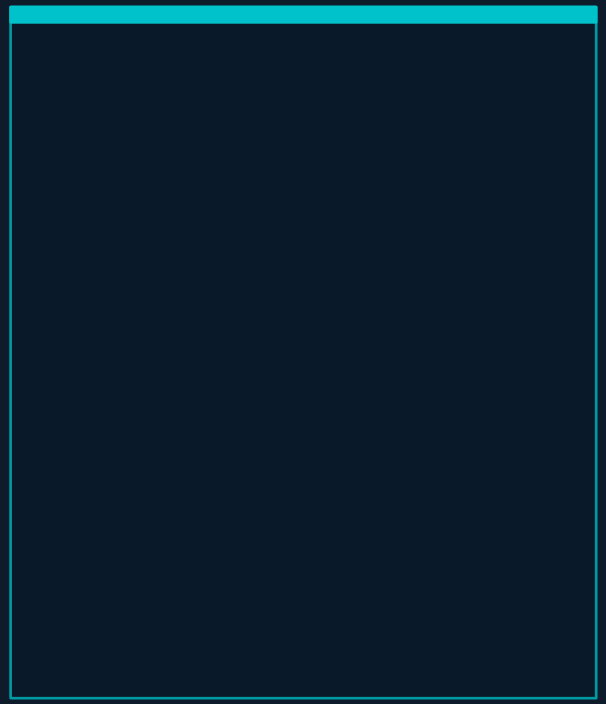







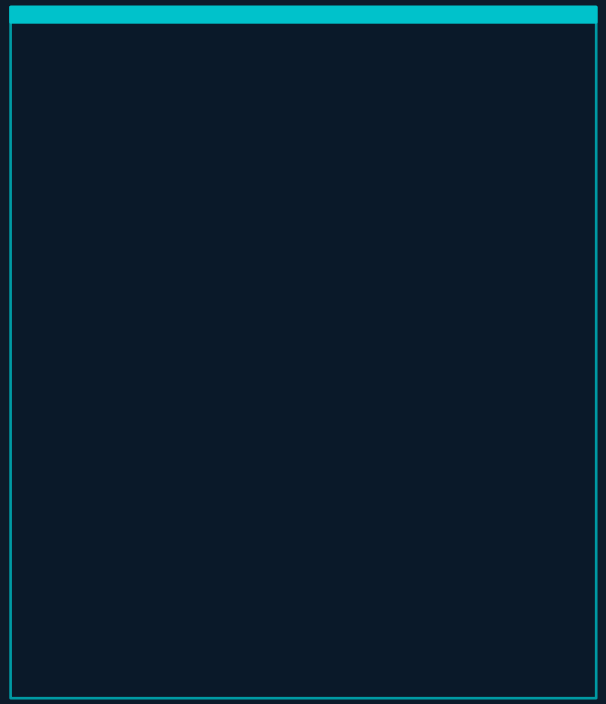
Technology & Unique Environments

Special Environments

Getting the Whole Organization Behind VM







NEW SECTION

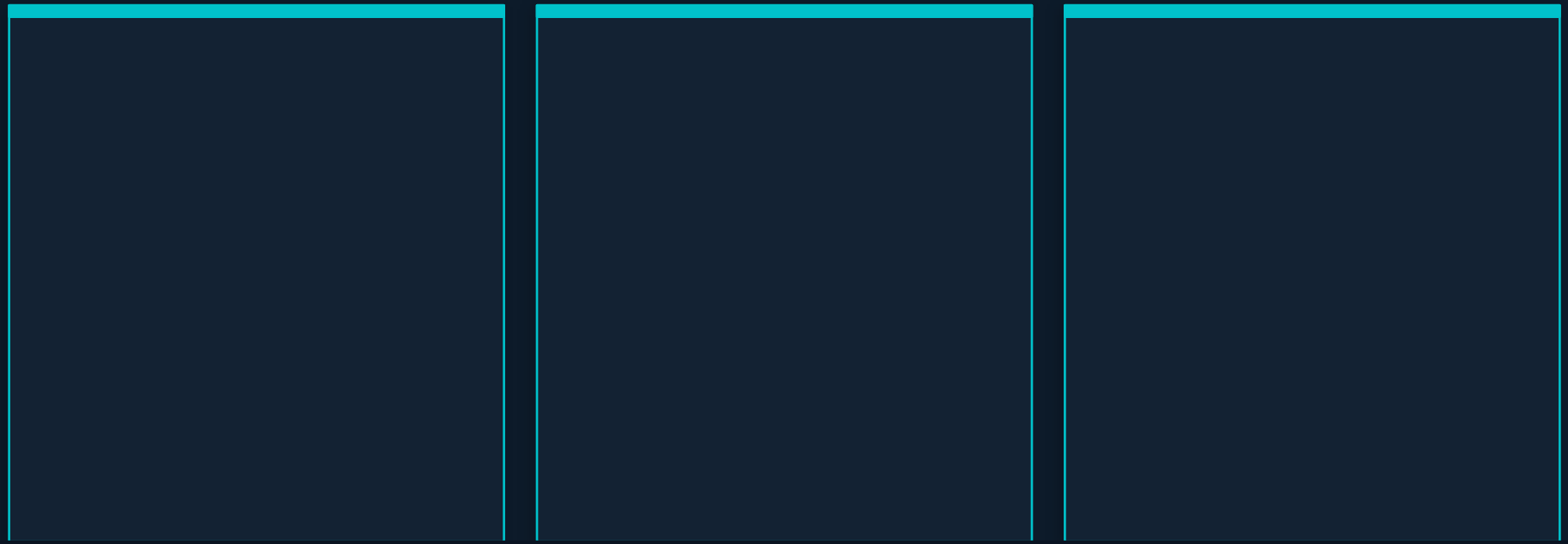
The AI Vulnerability Storm

Preparing Your VM Program for the Mythos Era

Based on the CSA / SANS / OWASP Strategy Briefing — April 2026

AI-driven vulnerability discovery has fundamentally changed the threat landscape.

A Step Change in AI-Driven Vulnerability Research



From Discovery to Exploitation: Now Measured in Hours

XBOW #1 on HackerOne

First autonomous system to outperform all human hackers on the platform

Google Big Sleep: 20 Zero-Days

Real zero-days in FFmpeg, ImageMagick — found and reproduced autonomously

First AI Espionage Campaign

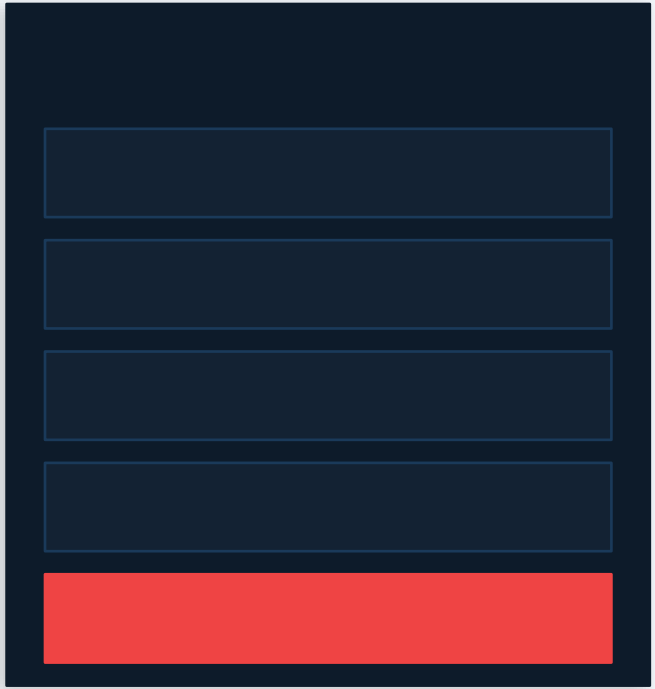
Chinese state-sponsored group used Claude Code for full attack chains across ~30 global targets

500+ High-Severity Bugs Found

Including 12 OpenSSL zero-days. AI-based attack reached admin access in 8 minutes.

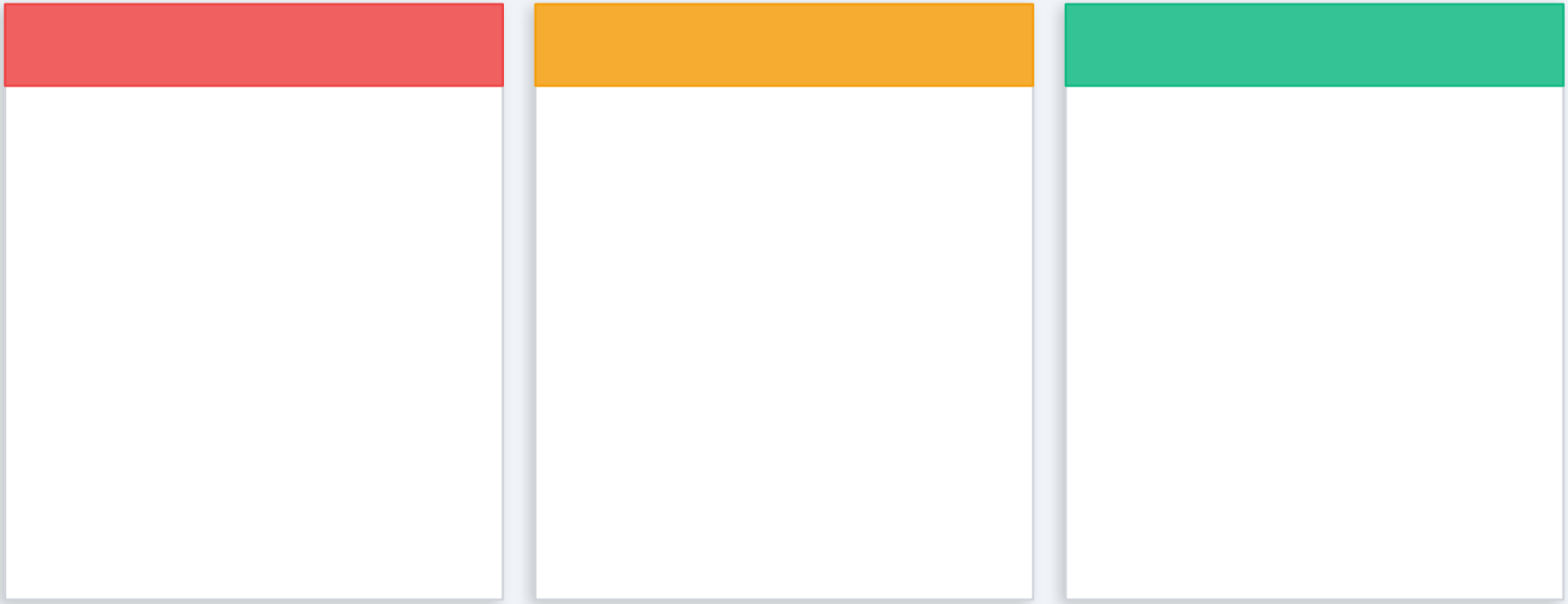
Claude Mythos Preview

Thousands of zero-days. 72% exploit success rate. Time-to-exploit now under 24 hours.

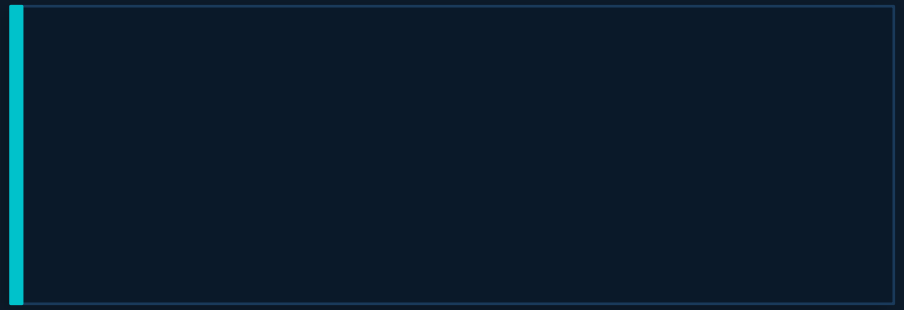


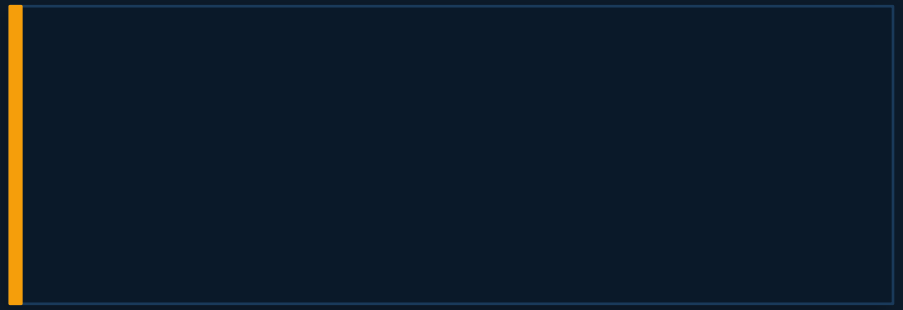
What the AI Vulnerability Storm Changes

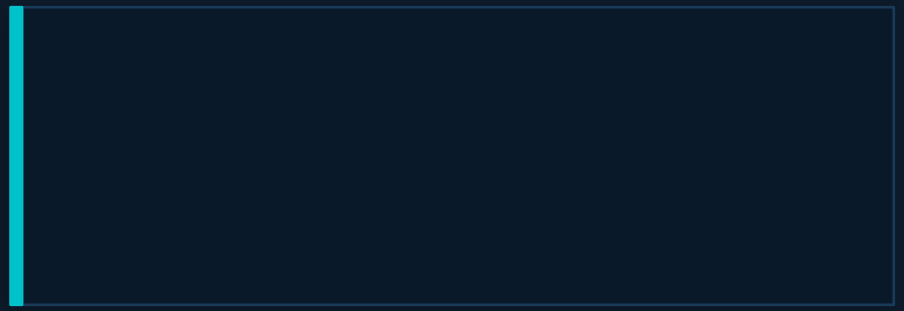
Priority Actions — Three Time Horizons (Times Vary by Org)

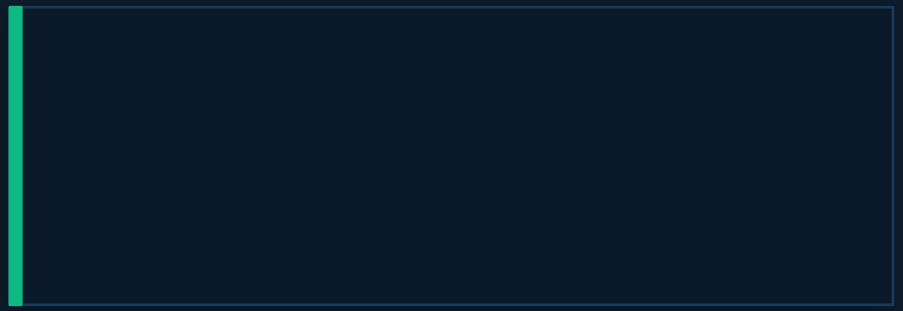


We Can't Outwork Machine-Speed Threats — But We Can Adapt









Thank You

Let's keep the conversation going.

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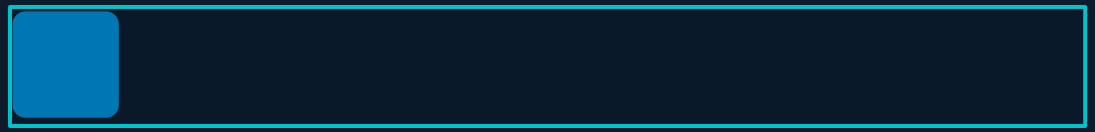

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