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Welcome

5 Core trends redefining MDR in 2026





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Agenda

- Evolving threats
- Al impact on cyber security
- Evolution of MDR architecture
- Automation vs human element
- Exposure management integration
- Real-world attack examples
- Key takeaways
- ASQ ·



API threats

Autonomous attack by Al

Targeting business use of Al

Targeting AI (LLM models)

Attacks Using AI

- 44% of advanced bot activity target specifically API environments, despite APIs representing only 14% of overall attack vectors
- Brute force has entered the top 3 API breach methods in 2025
- BOLA (Broken Object Level Authorisation) stays #1 API vulnerability and #1 on the OWASP top 10 API list
 - 60 million users records stolen USPS breach
 - 15 million users records stolen Trello breach



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Attacks Using Al

- Autonomous attacks carried by AI agents
- Carnegie Mellon University research conducted in partnership with Anthropic, showed that AI could replicate the 2017 cyberattack on Equifax by autonomously exploiting vulnerabilities, installing malware and stealing data. (Attack Toolkit "Incalmo")
- The result? Threat actor can expand their campaigns without the human element limitations



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Attacks Using Al

- Gemini Trifecta: discovered by Tenable, 3 vulnerabilities in Google's Gemini:
 - Gemini Cloud Assist a prompt-injection vulnerability
 - Gemini browsing tool vulnerability
 - Gemini search personalisation model search injection vulnerability
- Amazon Q Developer compromise: "AWS Security has inspected the code and determined the malicious code was distributed with the extension but was unsuccessful in executing due to a syntax error."!



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Attacks Using Al

- Poisoning attacks: Poisoning attacks target the AI/ML model training data
- Evasion attacks: Evasion attacks target an AI/ML model's input data
- Model tampering: Model tampering targets the parameters or structure of a pre-trained AI/ML model



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Attacks Using Al

- Attacks where adversaries use AI to craft sophisticated attacks
- LameHug infostealer malware, By APT28, no hardcoded malicious code but talks to LLMs and sends prompts to retrieve malicious code
- Deepfakes, Social engineering, extorsion, phishing: all benefit from AI for increased efficiency and accuracy



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Attacks Using Al

- 4 in 5 companies reported at least one cloudrelated security incident in the past year (ExpertInsights, 2025)
- 68% of organisations admit they cannot detect cloud threats in real time. (AppSecure, 2025)
- 54% of cloud-stored data is classified as sensitive (AppSecure, 2025)



Defenders follow

SentinelOne

acquired Observo AI & Prompt Security (2025)

Crowdstrike

Pangea of AI security, Onum for telemetry analytics (2025), Flow Security (2024)

Vectra Al

Netography (2025)

Darktrace

Mira Security (2025)

Check Point

Lakera AI Security & Veriti for risk management (2025), Atomsec (SaaS Security, 2024)

Fortinet

Suridata (SSPM, 2025), Lacework (CNAPP, 2024), NextDLP (2024)

Varonis

Cyral (DAM) & SlashNext (AI email security), 2025.

Netskope

Wootcloud (OT sec, 2025) & Dasera (DSPM, 2024)

Zscaler

Red canary Al-driven SecOps (2025), Avalor for Al-powered data security (2024), Airgap (2024)

Cyber security vendors are racing to acquire AI capabilities, complete their coverage, and move into a consolidated platform play ..

But can they win the race?

Al vs Al





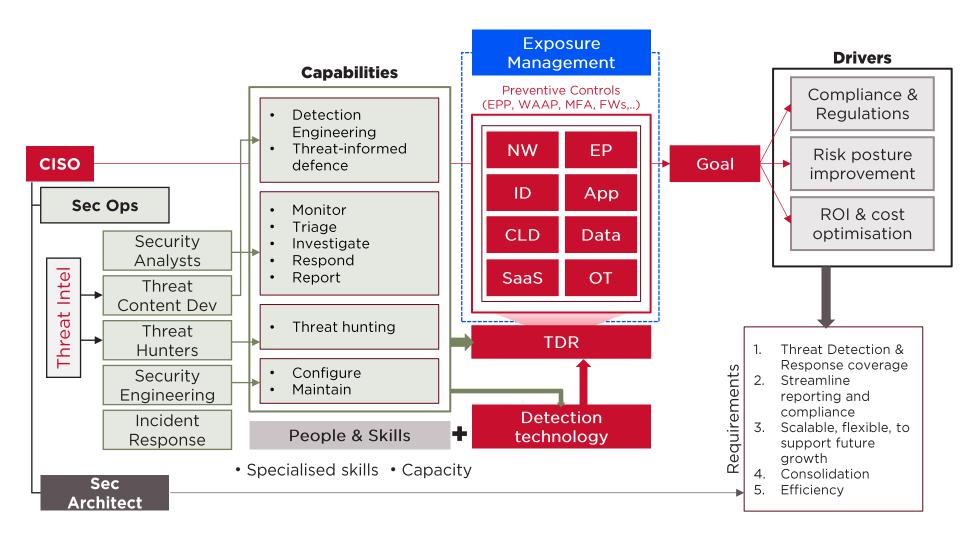




- Criminal GPT (Worm GPT, ..)
- Prompt injection, poisoning,...
- Deepfakes, social engineering,...

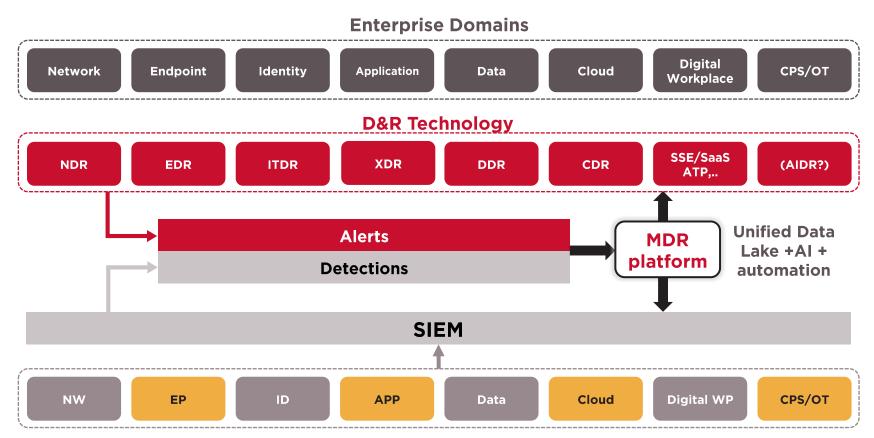
- Gen Al user controls
- AI-powered MDR

- AISPM
- Security Copilot
- Al analytics



MDR Architecture





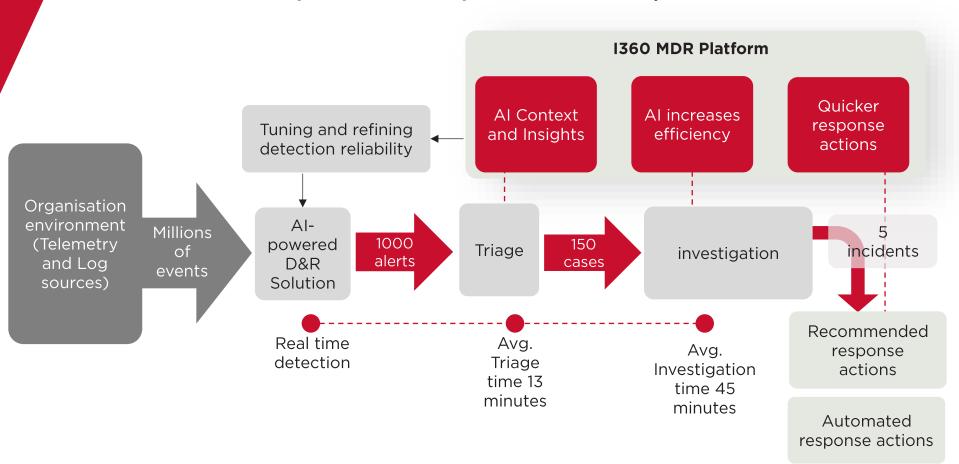
Log sources per domain



How AI Enhances MDR Capabilities

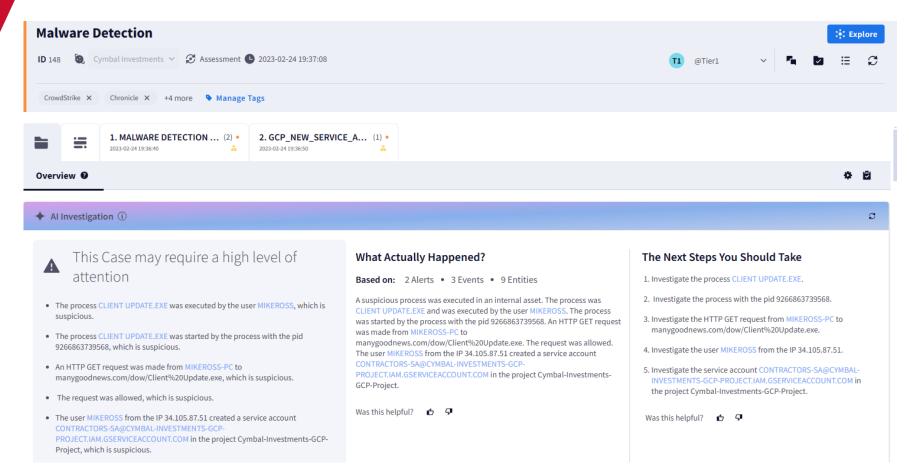
How AI & Automation powered MDR improves incident lifecycle





Utilising Al in SecOps

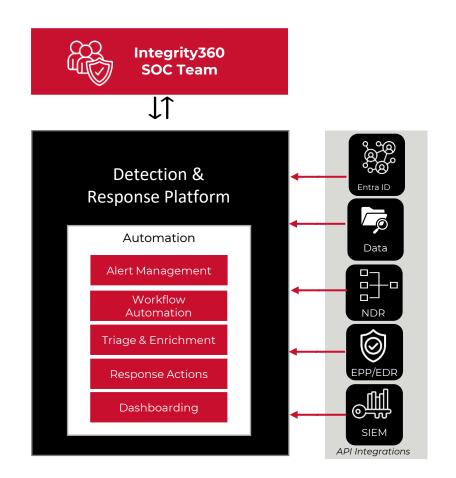






Automation benefits

- Use not replace on existing detection technologies
- Consistent outcomes across techs
- Rapid view of collated information
- Rapid enrichment information
- Rapid timeline view
- Enables faster precise decisions making
- Positive impact on staff retention
- Enables proactive threat hunting
- Enables continuous threat detection evolution





Now is the time for MDR to become proactive



Adjacent services



Adversarial

exposure

validation



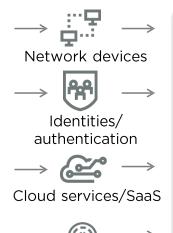
Scanning



Assessments / testing



Simulation



Third party/

apps/etc.



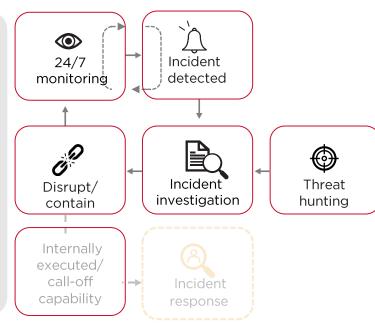
Analytic processes & insights



Threat intel



Reporting & impact



Proactive capability

Reactive capability

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By 2026, organisations prioritising their security investments based on a continuous exposure management programme will be three times less

likely to suffer from a breach.

Gartner

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By 2028, 50% of findings from managed detection and response providers will be focused on, or include detail on threat exposures, up from 10% today.

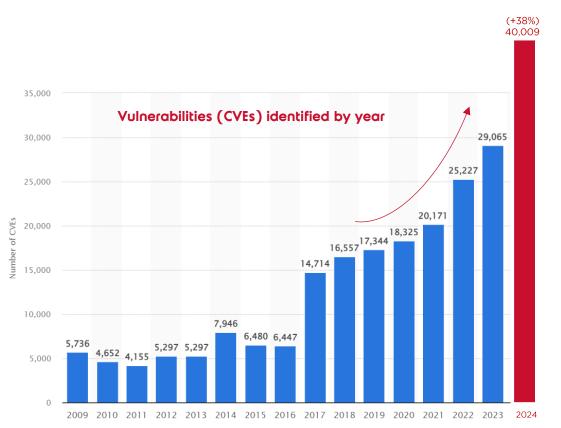
Gartner

An exposure is anything that may be exploited by a bad actor to achieve their objectives

Type of exposure: Vulnerabilities



Vulnerability Management as a problem is not going away



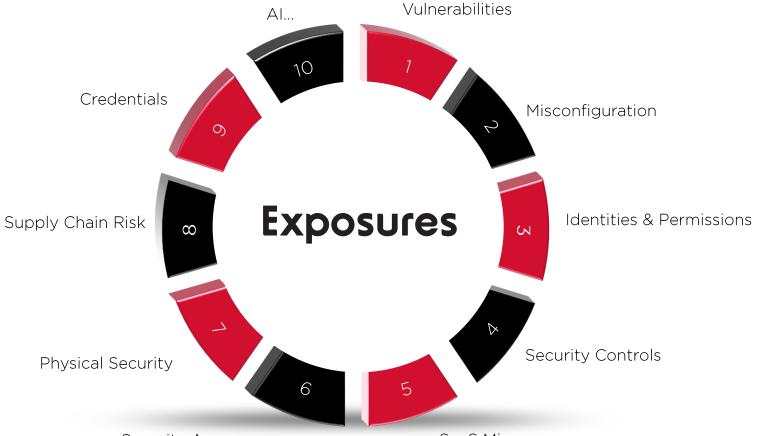
Even taking a riskbased vulnerability management (RBVM) approach might not be sufficient. Fixing every known vulnerability has always been operationally infeasible.

- GARTNER

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Exposures extend beyond vulnerabilities

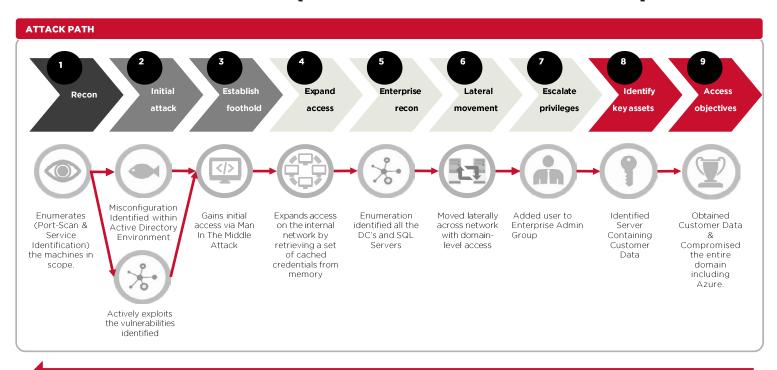




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Attackers chain exposures to build attack paths





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Not convinced?

Oct 2025: Qilin stole ~9,300 files

Qilin frequently uses phishing (incl. tailored spear-phishing) and abused leaked or purchased legitimate credentials to gain a foothold (MITRE T1566 / T1078)



Mitigating factor: Digital Risk Protection

exfil/collection infrastructure in a narrow window.

Mitigating factor: Digital Risk Protection

Jun 2025: Multi-country data breach

likely phishing domains and setup of

discovered. ShinyHunters. Registration of

Jan 2024 Midnight Blizard, gained access to corporate email accounts via password spraying, spear-phishing via Teams/RDP lures, credential theft from legacy/test accounts.

Mitigating factor: Use Microsoft properly or CCM e.g., XMCyber.

Microsoft

Aug 2024: Salt compromised at least nine major U.S. telecommunications firms. exploiting zero-day vulnerabilities in network equipment, intercepting metadata of users' calls and text messages.

Mitigating factor: Continual External Attack
Surface Scanning.

us Telecon

TERVICES















Key takeaways



Evolving threats require consolidated D&R



Attackers already using AI, embrace defender-side usage



Automation won't replace the human SOC, but can augment it



Integrate Exposure Management with MDR to cover proactive and reactive risk reduction



Ensure MDR provider is evolving in line with modern requirements