





The rise of Al-powered cyberattacks is reshaping the threat landscape for businesses. While large corporations are frequent targets, middle-market companies face even greater vulnerabilities. Unlike enterprise giants with extensive cybersecurity teams and budgets, middle-market firms often lack the resources to fend off increasingly sophisticated Al-driven attacks. As a result, a single cyber event could threaten their operations, reputation, or even their long-term survival.

## Why Al-Driven Attacks Are So Dangerous

Al-powered hacks are far more dangerous than traditional ones because they:

- Learn and Evolve: Al-based malware can analyze a company's defenses in real time and adapt accordingly.
- Automate Exploits: Hackers can launch thousands of attacks simultaneously, increasing their odds of success.
- Negotiate Ransom Tactics: Al tools monitor how companies respond to ransomware demands and adjust strategies to maximize payouts. These features make Al-driven attacks exceptionally difficult to stop, especially for smaller organizations without robust cybersecurity teams or the ability to monitor threats 24/7.

### Al Hacks: A Greater Threat to Middle-Market Firms

A 2023 report shows that 73% of large enterprises are targeted by AI-driven attacks, but 64% of middle-market companies lack sufficient cybersecurity infrastructure to defend themselves. Alarmingly, nearly 60% of middle-market firms that experience a major cyberattack never recover, often leading to bankruptcy or closure.

Al-powered cyberattacks, including adaptive malware, deepfake social engineering, and Al-enhanced phishing, are posing unprecedented risks to businesses. Middle-market companies are particularly vulnerable due to limited resources and underdeveloped security systems, making them prime targets for these evolving threats. With attackers using Al to learn, adapt, and automate their attacks, companies must adopt advanced defenses or risk their survival.

An illustrative example of how devastating Al-driven ransomware can be for middle-market companies is the attack on Brenntag, a global chemical distributor, which paid a \$4.4 million ransom after falling victim to the DarkSide ransomware group. Although Brenntag managed to recover, it provides insight into the high stakes for businesses in this sector. Smaller or less resilient distribution companies targeted by similar attacks might not survive. Severe disruptions to operations, stolen data, and ransom demands can make recovery nearly impossible, forcing companies to shut their doors permanently.

This case underlines the vulnerability of middle-market companies, which often lack the extensive cybersecurity budgets of larger firms, leaving them especially exposed to advanced AI-powered attacks.

The largest known ransomware payment to date was \$75 million, made by a Fortune 50 company to the Dark Angels ransomware group in early 2024. This payment surpassed previous records, including the \$40 million ransom that insurance firm CNA Financial paid in 2021 following an attack by the Evil Corp group Beleeping Computer These record-breaking payments highlight the increasingly aggressive nature of ransomware attacks, which target high-value companies with precision and threaten their operations and sensitive data. As ransomware groups refine their tactics, companies—especially in the middle market—must strengthen their cybersecurity defenses or face devastating consequences.

#### **How Al-Driven Hacks Use Precision Attacks**

Al-powered attacks leverage automated processes to carry out large-scale campaigns with precision and efficiency. These tools allow attackers to:

- Launch thousands of attacks simultaneously, increasing the likelihood of success.
- Analyze systems in real-time and adapt strategies based on defenses encountered. The following methods showcase how AI is transforming traditional attack tactics:
- Adaptive Malware: Adaptive malware changes its code and behavior in response to different security environments, evading detection by antivirus software. Once inside a system, it can escalate privileges, disable defenses, and remain dormant until it finds a strategic moment to strike. Unlike traditional malware, these AI-enhanced programs evolve, meaning they can bypass even the latest updates to security tools.
- Deepfake Social Engineering: Al-driven deepfakes use machine learning models to create highly realistic fake audio, video, or images of individuals, such as executives or employees. Attackers use these fakes to impersonate company leaders, tricking employees into making unauthorized payments, sharing sensitive information, or granting system access. A typical example would be a CFO receiving a fake call or video message from the CEO, authorizing a wire transfer that ends up in a criminal's account.
- AI-Enhanced Phishing Attacks: Traditional phishing attacks are already dangerous, but AI tools
  make them even more effective. By analyzing an organization's email patterns, hackers create
  hyper-personalized phishing emails that look identical to legitimate communications. AI can predict
  how targets will respond and optimize future phishing attempts to increase success rates. This
  makes it extremely difficult for employees to distinguish phishing messages from authentic ones.

## **How Companies Can Defend Against Al-Driven Cyberattacks**

Businesses must adopt a proactive, multi-layered security approach to combat Al-enhanced threats:

- 1. **Al-Based Security Tools**: Use Al to fight Al. Tools like behavior analytics and anomaly detection can identify unusual activity before it escalates.
- 2. **Zero-Trust Architecture:** Implement access controls that assume no user or system is trustworthy until verified.
- 3. Regular Penetration Testing: Simulate Al-driven attacks to uncover vulnerabilities before hackers do.
- 4. **Incident Response Planning**: Develop a ransomware response strategy, including negotiation protocols and partnerships with third-party security firms.
- 5. **Employee Training:** Educate staff on spotting phishing and deepfake scams, as humans remain a common target for attackers.

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