

# AiTM Attacks

## How They Work and How to Stop Them

Adversary -in-the-Middle (AiTM) attacks have become a growing concern for businesses. They allow malicious actors to modify information, exfiltrate data and impersonate executives, even if multifactor authentication (MFA) is enabled.



### What is an AiTM attack?

AiTM is a phishing tactic in which attackers insert themselves between a user and a legitimate service (like Microsoft 365 or Google Workspace). The attacker intercepts and potentially alters data in real-time, bypassing MFA and capturing session cookies to hijack accounts even after login.



### How attackers exploit trust with AiTM tactics

- STEP 01 Targeted phishing email**  
 The attacker lures a user with a deceptive email impersonating the Microsoft 365/Google Workspace login.
- STEP 02 Proxy-based phishing page**  
 A fake login page mimics the real one but sits behind a proxy controlled by the attacker.
- STEP 03 Real-time MFA bypass**  
 The proxy relays MFA credentials to the actual login page, giving the user the illusion of success.
- STEP 04 Session cookie theft**  
 The attacker captures session cookies that allow them to impersonate the user without needing credentials again.
- STEP 05 Persistent access**  
 Attackers now have ongoing access to SaaS applications — undetected.

### Why IT professionals should be alarmed



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**Financial damage**  
 Hijacked accounts can authorize fraudulent payments.
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**Data exfiltration**  
 Sensitive client or employee data can be stolen.
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**Compliance violations**  
 Unauthorized access leads to regulatory violations.
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**Lateral movement**  
 Attackers pivot from SaaS apps into your broader IT stack.

### Warning signs of an AiTM attack

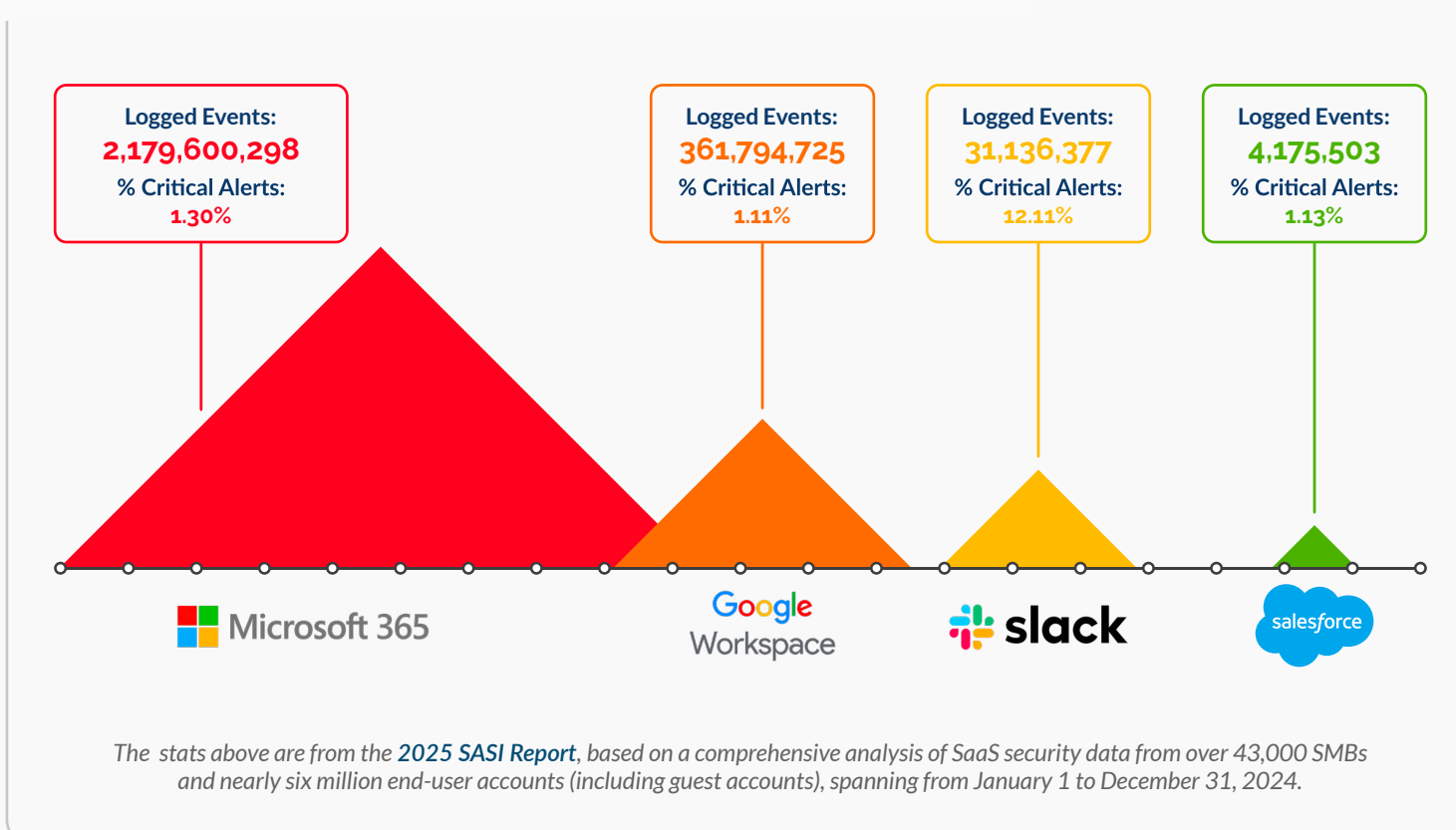
- Multiple logins from new geolocations
- MFA prompts at odd hours
- Sudden permission escalations in SaaS apps
- Session timeouts without user input
- Credential phishing reports from employees

### How SaaS Alerts stops AiTM



- Session monitoring**  
 Detect suspicious login patterns, abnormal file sharing and session hijacks.
- Automated alerting**  
 Get notified of credential reuse, anomalous IPs and MFA failures.
- Audit-ready reports**  
 Showcase rapid detection and response to demonstrate value and meet compliance requirements.
- Auto-remediation**  
 Kill active sessions and revoke access instantly.

### Most commonly targeted SaaS apps



## Your SaaS environment deserves real-time protection

SaaS applications are vital to business operations. SaaS Alerts doesn't just monitor your most critical SaaS environments for abnormal behavior in real-time — it also responds. When threats are detected, our platform can automatically trigger remediation actions, like disabling compromised accounts and blocking new login attempts. This automation dramatically reduces response time, minimizes risk and helps IT teams maintain business continuity without manual intervention.

[Book a demo](#)

to discover how SaaS Alerts strengthens SaaS security, or

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