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Weekly Insights and Updates

| November 22, 2024

This week's cybersecurity developments reveal a stark truth: zero-day vulnerabilities and advanced persistent threats (APTs) are redefining the boundaries of risk. Sophisticated state-sponsored espionage campaigns and opportunistic ransomware gangs are exploiting even minor security flaws at an accelerating pace. Once rare, zero-day vulnerabilities have become a frequent weapon of choice for state-sponsored actors and cybercriminals, delivering devastating consequences.

Recent breaches highlight the growing severity of the crisis - from the compromise of millions of sensitive records to the disruption of critical infrastructure that challenges the very systems that underpin modern society. Phishing schemes masquerading as legitimate invoices, zero-click exploits, and targeted attacks on telecommunications and government networks emphasize a sobering reality: industries are increasingly vulnerable due to inadequate patching and weak security design.

To stay ahead, organizations must act decisively—closing security gaps, prioritizing regular updates, and deploying advanced defenses to confront this relentless wave of threats.

Zero-Day Exploits Dominate 2023 Threats

Zero-day vulnerabilities surged in 2023, with attackers exploiting flaws like CVE-2023-4966 in Citrix systems and SQL injection vulnerabilities in the MOVEit platform. CISA highlights the need for improved patching protocols and proactive defenses.

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China's Liminal Panda Targets Telecoms

The Liminal Panda APT infiltrated telecom networks across Asia and Africa, intercepting SMS and metadata. These exploits underscore the vulnerabilities of outdated systems and the importance of secure IT infrastructures.

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Strengthening Federal Cyber Skills

Deepfakes, AI threats, and nation-state cyberattacks highlight the federal workforce's urgent need for advanced cybersecurity training. Upskilling teams and leveraging simulated exercises are key to future-proofing defenses.

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Hive0145's Invoice Phishing Tactics

Phishing campaigns from Hive0145 evolve with stolen invoice emails, spreading Strela Stealer malware to exfiltrate credentials. Organizations must increase email security standards to counter such deceptive tactics.

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Hackers Breach Library of Congress Emails

A months-long breach of Library of Congress emails highlights vulnerabilities in public-sector communications. The attack raises questions about the security of sensitive interagency correspondence.

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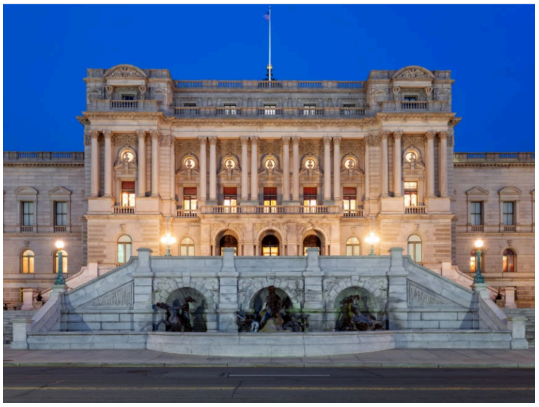
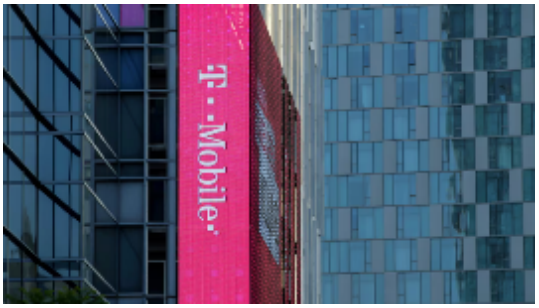


Hot Topic Data Breach Exposes 57M Customers

The hacker "Satanic" exploited cloud vulnerabilities to access the personal data of millions of retail customers. This breach reinforces the critical need for



T-Mobile Breach Tied to China

A suspected China-backed campaign infiltrated T-Mobile and other telecoms to spy on communications. The attack showcases the pressing need for

multi-factor authentication and secure cloud configurations.

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stronger cybersecurity in telecommunications networks.

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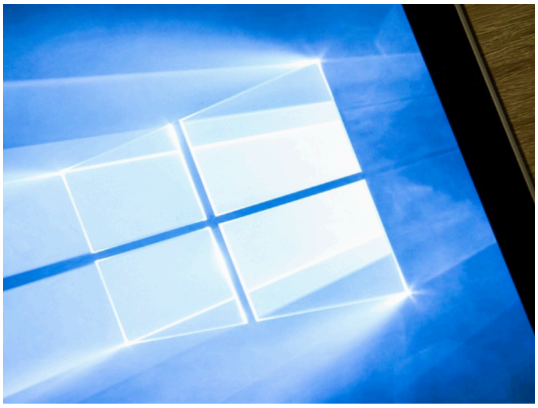

Russian Zero-Day Exploits in Ukraine

A zero-day flaw in Windows (CVE-2024-43451) allowed attackers to steal NTLMv2 hashes with minimal user interaction. The exploit, linked to Russian actors, emphasizes the importance of timely system updates.

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Microsoft's November Zero-Days

Two actively exploited zero-days—one targeting NTLMv2 hashes and another elevating privileges in Windows Task Scheduler—headline Microsoft's Patch Tuesday. Organizations must act quickly to patch critical vulnerabilities.

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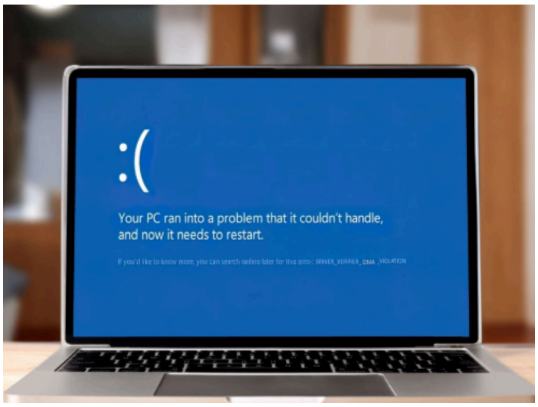

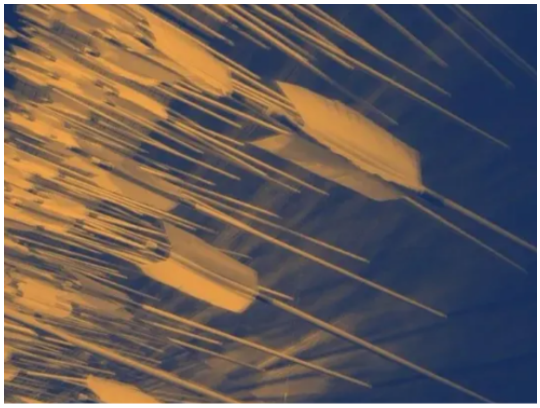

Five Eyes Warns of Zero-Day ‘New Normal’

The Five Eyes intelligence alliance calls zero-day exploits the "new normal," urging organizations to prioritize prompt patching and advocate for secure-by-design technology to counter advanced threats.

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The rising complexity of cybersecurity threats calls for unified action. Businesses, governments, and individuals must prioritize security, adopt higher standards, and collaborate to counter digital risks. From thwarting ransomware attacks to addressing zero-day vulnerabilities, staying informed and agile is a necessary foundation for outpacing adversaries. Whether you're managing a global enterprise or protecting your personal digital presence, knowledge and preparation are vital defenses.

At ATS, we provide organizations with the expertise and tools to face these challenges directly. By working together, we can strengthen defenses, outmaneuver attackers, and pave the way to a more secure future for everyone.

Outdated infrastructure invites modern attacks.

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