



# CYBER DIGITAL WORLD

NEWSLETTER

Volume: 52

DECEMBER 2025

## Highlighting the Cyber-landscape of 2025

### INTRODUCTION



Dr. Ronald Walcott  
Managing Director

In this month's issue of Precision Cybertechnology's newsletter, we are going to take a chance to slow down, reflect and recap our previous topics. As we have

established in our previous issues, cyber threats are becoming more frequent, complex, and impactful. Organizations must go beyond basic security controls and adopt a comprehensive, proactive approach to protecting their systems, data, and users. Understanding the key pillars of cybersecurity and how they work together is essential for building resilience and reducing risk.

This newsletter provides a concise recap of critical cybersecurity topics, from risk and vulnerability assess-

ment to the inner workings of the modern Security Operations Center (SOC). Whether you are a student, practitioner, or decision-maker, this overview is designed to reinforce foundational concepts, highlight current practices, and illustrate how effective security programs detect, respond to, and stay ahead of cyber threats.

### REFLECTING ON CYBERSECURITY 2025

Cybersecurity is a multifaceted discipline that brings together technology, processes, and people to defend against evolving threats. Core areas such as network security, endpoint security, cloud security, identity and access management (IAM), data encryption, and IoT security focus on protecting systems, users, and data across diverse environments. Secure development prac-

tices through DevSecOps help reduce vulnerabilities before software is deployed, while malware analysis and threat intelligence enable organizations to understand attacker behavior and anticipate emerging risks. Security awareness and training further strengthen defenses by addressing the human element, which remains one of the most common attack vectors.

Equally important is the ability to identify, assess, and manage risk through comprehensive risk and vulnerability assessments, which help organizations prioritize remediation efforts and align security controls with business impact. Protecting critical infrastructure demands heightened vigilance and resilience due to its importance to public safety and economic stability. At the center of these efforts is the modern Security Operations Center (SOC), where security teams continuously monitor activity, analyze alerts, and respond to incidents using tools such as SIEM, EDR, SOAR, and threat intelligence. Together,

CONTINUED ON PAGE 2

#### IN THIS ISSUE:

HIGHLIGHTING THE  
CYBER-LANDSCAPE OF 2025

HEADLINE NEWS:  
FIGHTING AI WITH AI: THE BATTLE  
CYBERSECURITY CAN'T AVOID

UPCOMING EVENTS



these capabilities allow organizations not only to detect and respond to cyber threats, but also to stay ahead of them in an increasingly complex threat landscape. By continuously monitoring environments, adapting to new attack techniques, and aligning security initiatives with organizational goals, businesses can improve their overall security posture. A strong cybersecurity program is not static; it evolves through continuous assessment, automation, and collaboration across technical and non-technical teams to stay resilient against an ever-changing threat landscape.

## THE FUTURE OF CYBERSECURITY

We have a lot to look forward to in 2026. The interplay of AI innovation, quantum readiness, identity-centric defenses, evolving regulations, and adaptive security practices will usher in both significant opportunities and sophisticated challenges for cybersecurity professionals and organizations alike



### AI Will Drive the Future of Attacks and Defense:

Artificial intelligence is expected to be the dominant force shaping cybersecurity in 2026. Attackers will increasingly use AI to automate reconnaissance, craft adaptive malware, launch targeted phishing campaigns, and even conduct autonomous (agentic) attacks that operate without direct human control. At the same time, defenders will leverage AI-driven tools to enhance threat detection, automate incident response, conduct predictive threat modeling, and reduce alert fatigue in SOC environments. This dual use underscores the continuing security arms race between attackers and defenders.

### Regulation, Privacy, and Supply Chain Assurance:

Organizations will face tighter data privacy regulations and greater compliance complexity as global legislative frameworks evolve in response to AI and cross-border data concerns. Supply chain security will also receive intensified focus, with widespread adoption of Software

Bills of Materials (SBOMs), continuous risk assessments, and enhanced third-party transparency.

### Expanded Attack Surfaces and Cloud/Edge Security:

As hybrid and multi-cloud deployments grow and IoT devices multiply, securing cloud environments and edge computing infrastructures will be essential. Unified cloud-native security frameworks, Secure Access Service Edge (SASE), and advanced cloud posture management solutions will help organizations maintain visibility and enforce real-time protections across distributed systems.

### Identity and Zero Trust Become Core Security Priorities:

With attackers shifting focus from perimeter breaches to identity-based attacks including deepfakes, voice spoofing, and biometric exploits securing digital identities will become one of the most critical components of cybersecurity strategy. Zero Trust Architecture (ZTA), which assumes no implicit trust and continuously verifies every authentication attempt, will evolve with AI and contextual risk analytics to form a resilient security baseline across networks, clouds, and applications. IBM+1

### Quantum Computing and Post-Quantum Security:

Quantum computing is moving closer to practical application, creating urgency around the transition to quantum-resistant cryptography. Organizations will begin migrating toward quantum-safe encryption algorithms and crypto-agile strategies to protect sensitive data against future computational breakthroughs that could otherwise compromise traditional cryptographic standards.

All in all, 2026 will be defined by the interplay of AI, quantum readiness, identity-centric defenses, regulatory change, and adaptive security practices ushering in both significant opportunities and sophisticated challenges for cybersecurity professionals and organizations alike.



# Frequently Asked Questions:

## WHAT SKILLS ARE MOST IMPORTANT FOR A CAREER IN CYBERSECURITY?

A successful career in cybersecurity requires a mix of technical, analytical, and soft skills. Core technical skills include networking fundamentals, operating systems, cloud technologies, and security tools such as firewalls, SIEM, and EDR platforms. Analytical skills are critical for identifying patterns, investigating incidents, and assessing risk, while problem-solving helps professionals respond effectively under pressure. In addition, communication skills are essential for explaining technical risks to non-technical stakeholders, writing clear reports, and collaborating across teams. Continuous learning is also vital, as the threat landscape and technologies evolve rapidly.

## WHY IS CYBERSECURITY IMPORTANT FOR ALL ORGANIZATIONS, NOT JUST LARGE ENTERPRISES?

Cybersecurity is important for organizations of all sizes because attackers often target small and medium-sized businesses due to weaker defenses and limited resources. A single cyber incident—such as ransomware, data theft, or a business email compromise—can result in financial losses, reputational

damage, legal penalties, and operational downtime. Even organizations that do not view themselves as “high-value targets” may be part of a supply chain, making them an entry point for larger attacks. Implementing basic security controls, risk assessments, and user awareness programs significantly reduces exposure to common threats.

## HOW DOES THE CYBERSECURITY INDUSTRY CONTINUE TO EVOLVE OVER TIME?

The cybersecurity industry evolves in response to new technologies, attacker tactics, and regulatory requirements. As organizations adopt cloud computing, AI, IoT, and remote work models, security solutions adapt to protect increasingly distributed environments. Attackers also become more sophisticated, using automation, social engineering, and advanced malware, which drives innovation in threat detection, intelligence sharing, and automated response. At the same time, governments and regulators introduce new compliance standards, influencing how organizations manage data protection and risk. This constant change makes cybersecurity a dynamic field that requires ongoing innovation, collaboration, and skill development.

**WHY CLIENTS CHOOSE US**

We offer companies a complete, top to bottom approach to assess posture, identify gaps, implement securities and mitigate risk.

## UPCOMING EVENTS

### ESPANASEC CYBER SUMMIT

February 10, 2026

### CS4CA - ANZ

February 10, 2026

### CYBERSECURITY SUMMIT: IMPLICATIONS OF AI (VIRTUAL)

February 24, 2026

### NULLCON GOA - 2026

February 25, 2026

# Headline News

## Fighting AI With AI: The Battle Cybersecurity Can't Avoid



AI's breakneck evolution is overwhelming static security strategies that are still adapting to shifting attack surfaces and hyper-productive adversaries.

Rachel Jin, chief platform and business officer at Trend Micro, says the speed and overall volatility of AI models is reshaping everything – from IT lifecycles to threat patterns. LLMs update monthly and attackers are increasingly using that pace to generate highly tailored phishing attacks, automate tasks and further scale operations. Meanwhile, defenders must rethink strategies and tooling around tools built for predictability and menial tasks.

Jin said organizations can no longer rely on uniform security packages. Personalization, continuous adaptation and rapid scale-out are now table stakes for safeguarding AI-driven environments. "You cannot protect what you don't see, you don't know. And so the AI attack surface will be a new attack surface," Jin said.

In this video interview with Information Security Media Group at AWS re:Invent 2025, Jin also discussed:

- Why fighting "AI with AI" is becoming foundational as attackers automate and accelerate;
- How visibility into AI usage, agents and MCP servers underpins policy decisions and real-time defense;
- Why an AI security blueprint helps CISOs map risk, consolidate tooling and prioritize scarce budget.

Jin is the chief platform and business officer at Trend Micro, where she leads the company's global product, sales and marketing organizations. With more than 20 years of experience spanning engineering, product management, marketing, field sales and executive leadership, she brings a unique blend of technical depth, market insight and strategic vision to her role.

**Source:** [www.databreachtoday.com/](http://www.databreachtoday.com/)



868-610-7237



info@precision-cyber.com



www.precision-cyber.com



1st Floor, Brair Place, 10-12 Sweet Road  
St. Clair, Port of Spain, Trinidad