

Top 9 Trends in Cybersecurity for 2025

Enabling transformation



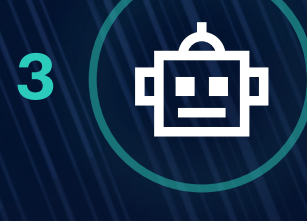
1

GenAI driving data security programs



2

Collaborative cyber-risk management



3

Managing machine identities

Embedding resilience



4

Transitioning to cyber resilience



5

Cybersecurity technology optimization



6

CISO and security team well-being

Enabling transformation and embedding resilience



7

Tactical AI



8

Extending the value of security behavior and culture programs



9

Managing third-party cybersecurity risks

Enabling transformation



GenAI driving data security programs

The demand for GenAI, whether through third-party services, business applications or custom architectures, is growing as organizations seek AI-driven value. However, concerns about data accuracy, privacy and compliance hinder its adoption.



Collaborative cyber-risk management

As business technologists independently make technology investment decisions, traditional centralized cyber-risk management struggles to scale, causing friction and reducing agility. Business adoption of transformative technologies like GenAI rapidly evolves the cyber-risk landscape.



Managing machine identities

Managing nonhuman identities and access for machines is increasingly important due to the rise of cloud services, automation, DevOps and AI, which have expanded the use of machine accounts and credentials for physical devices and software workloads.

Embedding resilience



Transitioning to cyber resilience

Security and risk management (SRM) leaders are shifting from a prevention mindset to focusing on cyber resilience, which emphasizes minimizing impact and enhancing adaptability by adopting a “when, not if” mentality and accepting that incidents are inevitable.



Cybersecurity technology optimization

SRM leaders face tension as cybersecurity technology options expand, yet large vendors push for consolidation into broad platforms. While these platforms aim to reduce complexity and cover more threats, they often overlap with point solutions, leading to potential inefficiencies and the need for additional tools to fill gaps.



CISO and security team well-being

SRM leader and security team burnout is a major concern in an industry with a skills shortage. Forward-thinking SRM leaders emphasize mental health, prioritizing their own stress management and investing in team well-being initiatives to enhance resilience.

Enabling transformation and embedding resilience



Tactical AI

SRM leaders initially faced disappointment with AI due to GenAI hype but have since shifted to focusing on narrower, measurable use cases. These more tactical implementations align AI tools with existing metrics and initiatives to enhance visibility and demonstrate the real value of AI investments.



Extending the value of security behavior and culture programs

Security behavior and culture programs (SBCPs) are now pivotal for organizations. SRM leaders value these programs for enhancing cybersecurity, leading to a strategic shift toward embedding security into organizational culture by focusing on human-level risk understanding and ownership.



Managing third-party cybersecurity risks

Increased reliance on third parties using GenAI tools highlights the need for strong response and recovery strategies. Progressive SRM leaders focus on policies for pausing or exiting third-party relationships and work with business sponsors to manage risks and guide control implementation.

Disclaimer: The trends are not ranked in order of importance.

Actionable, objective insight

Position your organization for success. Explore these additional complimentary resources and tools for cybersecurity leaders:

eBook 

Leadership Vision for Security and Risk Management Leaders

Uncover the top 3 strategic priorities for this year.


[Download Now](#)

Insights 

Cybersecurity and AI: Enabling Security While Managing Risk

AI's hype and promise in cybersecurity is balanced by trepidation and risk. Here's where to focus.

[Learn More](#)

How We Help 

How Gartner Works With CISOs

Find out how we provide the insight, guidance and tools needed to deliver on your mission-critical priorities.

[Learn More](#)

Roadmap 

Build a Resilient Cybersecurity Roadmap for Your Enterprise

Create a resilient, scalable and agile cybersecurity roadmap.

[Learn More](#)

Already a client?

Get access to even more resources in your client portal. [Log In](#)

[Learn More About Gartner for Cybersecurity Leaders](#)

[Follow Us on LinkedIn](#)

[Become a Client](#)