# Opportunities for Cybersecurity Professionals

Artificial Intelligence (AI) has emerged as a powerful tool for innovation and a challenge for cybersecurity professionals. With ever-evolving Al-powered malware, cybersecurity professionals are meeting the threat head-on by evolving their strategies and tactics to counter and proactively defend their security infrastructures through zero-trust, early detection, and investment into quantum capabilities. Leading the way are those deploying Al-counter technology measures.

# **AI-Powered Detection**

## How Gen-Al Can Help:1

- Accelerate threat detection
- Create quick incident summaries
- Automate security operations tasks Simulate attacks

44% of organizations globally

use AI to detect security intrusions<sup>2</sup>

**AI-Powered Defense** 

Areas defensive AI is expected to deliver the biggest impact:1

**61%** Cloud security

Data security

46% **Network security** 

50%

**Growing Cybersecurity Trends** 

# **Artificial Intelligence**

### of enterprises are prioritizing AI

76% and machine learning in their IT budgets<sup>2</sup> business executives will deploy Gen AI tools **70%** 

of security professionals believe that GenAI will greatly **50%**<sup>+</sup> impact the security field compared to other types of Al<sup>1</sup>

for cyber defense within the next 12 months<sup>3</sup>

**Zero Trust** 66% of organizations are implementing

of organizations worldwide have begun to implement a zero-trust strategy<sup>1</sup>

zero-trust policies4

**Post-Quantum Cryptography** 

98% by 2034, totalling more than \$17 billion<sup>5</sup>

expected growth of post-quantum cryptography

### Critical Infrastructure Cybercriminals are taking advantage of the evolving Al landscape and advancing the technologies in their tool belt to exploit vulnerabilities

Threats to Cybersecurity's



across an array of platforms, ecosystems, and infrastructures. Attackers are increasing their capabilities to bypass conventional

threat detection methods using AI-empowered malware, exploiting



IoT devices, and attacking supply chains.

#### of organizations feel the impact 3/4 of AI-powered security threats1

AI-Powered Malware Threats

85% data is in jeopardy due to evolving AI technologies<sup>6</sup> of security leaders across an array of global industries

74%

**107%** 

45%

**73%** 

10x/day

AI-powered cyber threats<sup>1</sup> of security professionals predict Al-powered

witness their organizations being impacted by

of cybersecurity leaders believe their company's sensitive

43% threats will evade traditional detection techniques<sup>7</sup>

increase in IoT malware in 2024. And, a 30%

### growth in malware across all ecosystems<sup>8</sup> growth in IoT malware attacks between 2023 and mid-2024 9

home networks devices are attacked 10 times on average every day<sup>10</sup>

of operation technology professions (OT) experienced

intrusions that impacted their OT systems in 2024,

(IoT) Threats

Mirai and Gafgyt malware families pose the biggest threat to IoT<sup>9</sup>

**Supply Chain Threats** 

#### Polymorphic Threats 94% of malware today is polymorphic<sup>12</sup>

up 24% from 2023<sup>11</sup>

Top Industries Under Attack

Year-over-Year increase in published ransomware attacks by sector:13

Top 3 most attacked industries were:13 Education/Research (3,341 attacks per week) Government/Military (2,084 attacks per week) Healthcare (1,999 attacks per week)

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