IOWN INTEGRAL

NTT R&D FORUM 2024

RESEARCH

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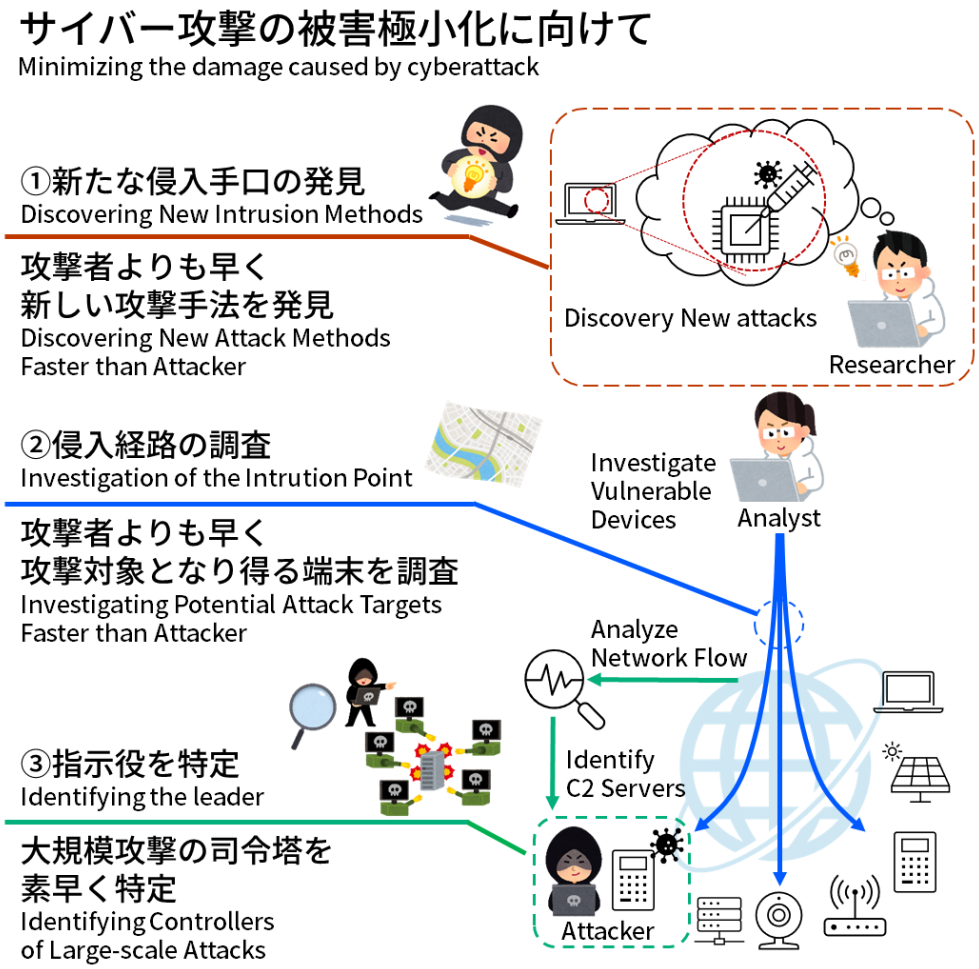
Cybersecurity measures to stay ahead of attackers

Minimise damage against increasingly large-scale and sophiscated cyber-attacks

#Business Resilience



///Technical Issue

Measures against known attacks cannot minimize damage from exploitation of unaddressed vulnerabilities or large-scale attacks.

///Research Goal

Minimize attack damage by establishing technologies to discover vulnerabilities and attack sources, and quickly implement measures.

---Technology

①New methods to covertly execute malicious code in benign processes.
②Unique IPv6 port scan based on co-occurrence of ports usage trends.
③Techniques to identify attack controllers with AI and graph mining from network flow.

---Novelty

①Detection evasion in 87.5% security products.
②Approximately 3x higher discovery rate than existing scanning methods.
③More than 30% of the results are detected earlier (Max. 1 month) than market threat information.

---Applicable Business

In the field of cybersecurity, this can be used for
①red team to defense its own organization (Technology establishment: Q1 FY2025)
②vulnerability assessment for IPv6 hosts (Technology establishment: Q3 FY2024)
③self-defense and threat intelligence service (Service available from NTT Security (KK). Update release: Q1 FY2025)

Exhibitors=NIPPON TELEGRAPH AND TELEPHONE CORPORATION/NTT Security Holdings Related URL=YouTube

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