



Incident Response

Overcoming the Main Challenges

swisscom

C2 General



Presenter Introduction



Angelo Violetti, 22-05-2025, Incident Response – Overcoming the Main Challenges, C2 General

- Angelo Violetti, 5+ years of experience in Digital Forensics & Incident Response
- Senior DFIR Analyst @ Swisscom CSIRT
- Threat Intelligence Analyst and Contributor @ The DFIR Report
- BSc in Computer Engineering and MSc in Cyber Security
- AWS & Azure Incident Response Certifications, Certified Forensic Analyst (GCFA) and Red Team Operator
- Speaker at Defcon 32 Blue Team Village, SANS Ransomware Summit, etc.



Section 1



**Why Incident Response
Matters**

Section 2



**Key Challenges in Incident
Response**

Section 3



Real-World Case Study

Section 4



**Strategies for Effective
Incident Response**



Why Incident Response Matters



Data breaches and incident statistics

**\$4.88
million (USD)**

Global average cost of
a data breach in 2024

+10%

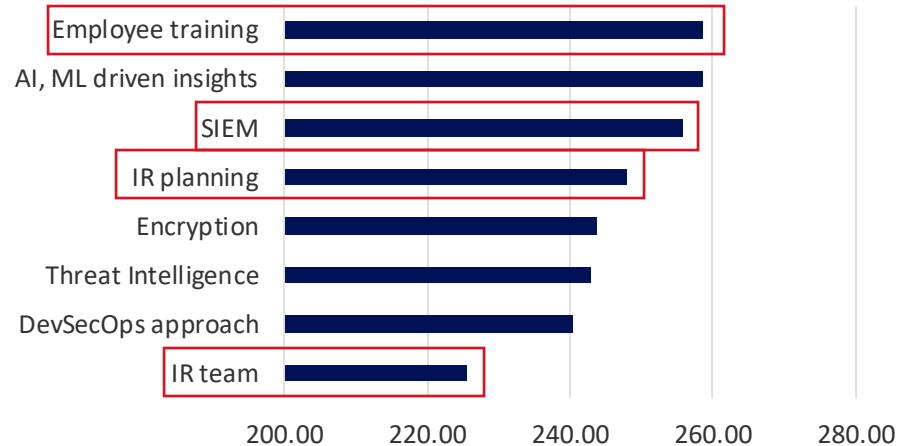
Increase of the global
average cost of a data
breach in 2024 over
2023

**62,954
cyber incidents
reported**

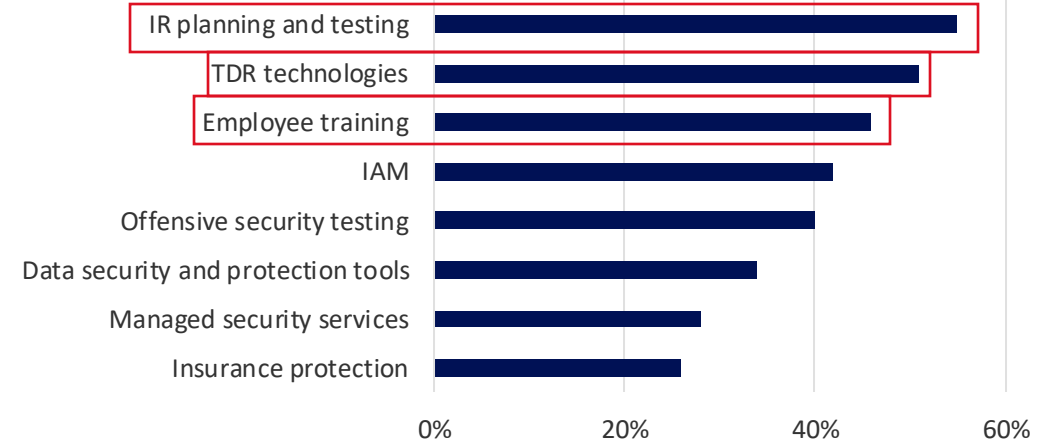
Switzerland NCSC
reported incidents in
2024 (an increase
compared to the 49k
in 2023)



Main factors that reduced the average breach cost (cost difference from USD 4.88M breach average)



Most common investment types among those increasing security investments after a data breach





Key Challenges in Incident Response



Insufficient Asset
Management



Inadequate Log
Visibility and Collection



Absence of Appropriate
Incident Response
Technologies



Shortage of Cyber
Security Personnel



Absence of Incident
and Crisis Management
Processes



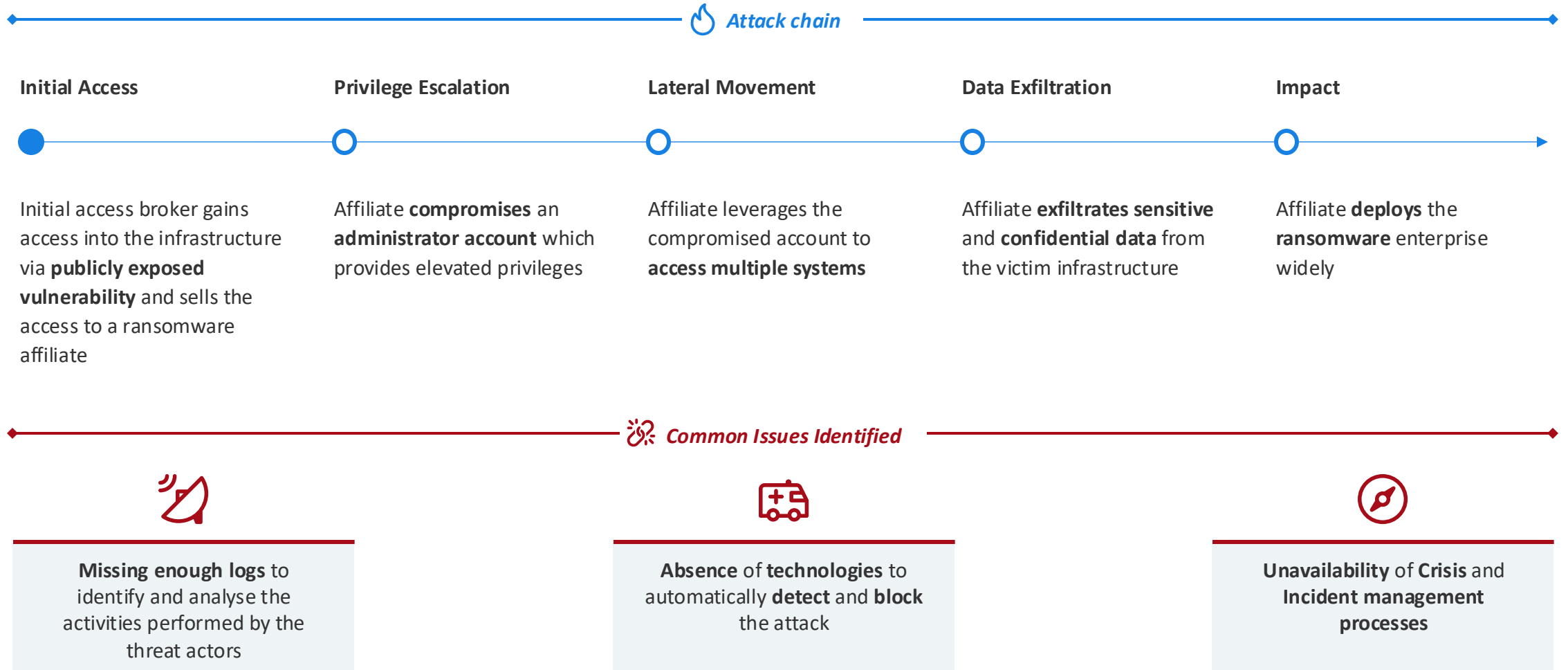
Regulatory and
Compliance



Difficulty in
Implementing
Remediation Measures

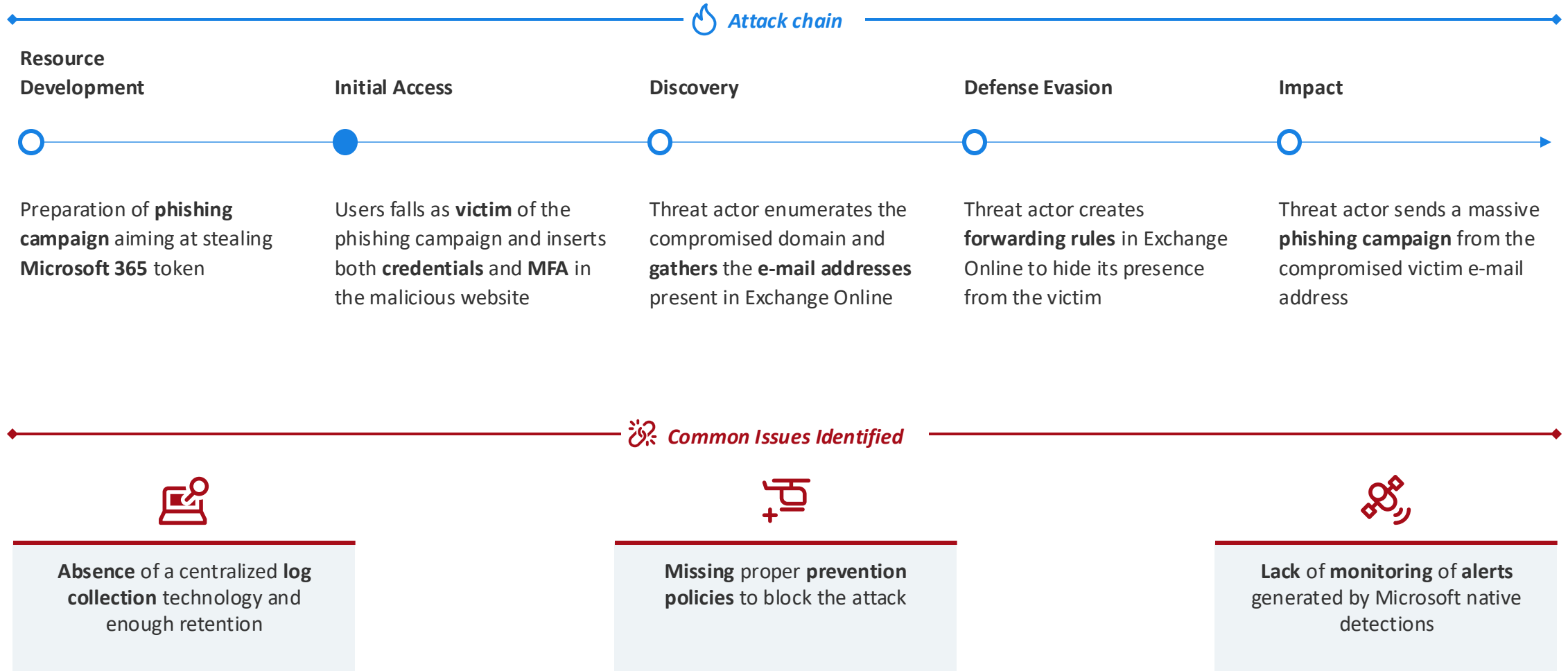


Real-World Case Study - Ransomware





Real-World Case Study – M365 Identity Theft





Strategies for Effective Incident Response



Enhance Asset Knowledge: Implement an authoritative Configuration Management Database (CMDB) or asset inventory tool that automatically discovers and tags all hardware, software, virtual machines, cloud workloads and data repositories.



Improve Log Visibility and Collection: Deploy a centralized log-aggregation platform (SIEM) that ingests logs from firewalls, endpoints, servers, applications and cloud services.



Acquire and Integrate Proper Response Technologies: Build a technology stack that includes technologies to properly respond to a cyber security incident, like: EDR/XDR, network IDS/IPS, etc.



Incident Response Personnel or Retainer: Invest in ongoing professional development (e.g., certifications, tabletop exercises, etc.) to build internal expertise. Supplement staff with external partners or managed-service providers to fill gaps and provide capacity during major incidents.



Establish Robust Internal Crisis-Management Processes: Document a formal Incident Response Plan and related playbooks, including clear escalation criteria, RACI roles, and communication templates. Exercise the process regularly through tabletop scenarios and full-scale simulations, then refine playbooks based on lessons learned.



Embed Compliance in IR: Maintain up-to-date documentation (e.g., risk assessments, DPIAs, evidence logs) to demonstrate “adequate measures” and to streamline any audits or investigations.



Streamline Deployment of Remediation Measures: Adopt a change-management framework that allows rapid, risk-controlled deployment of patches, configuration changes or network controls—even in crisis situations.



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