

Continuing to Adapt Navigating the Evolving Threat of Ransomware

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Golf & resort communit

Scope of responsibility



Keys to a successful technology transformation journey



Our experience in 2023 - volumes and trends

29 trillion

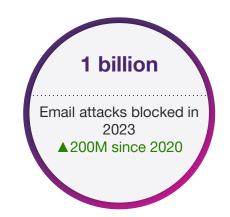
(2X increase since 2020)

Reconnaissance scans against the TELUS network in search of opportunities to attack

65 quadrillion

(5X increase since 2020)

Bits of online traffic attempting to cause outages



4 billion

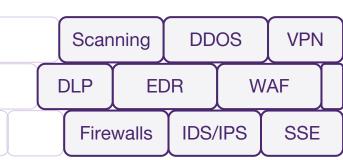
(3X increase since 2020)

Attacks targeting TELUS websites

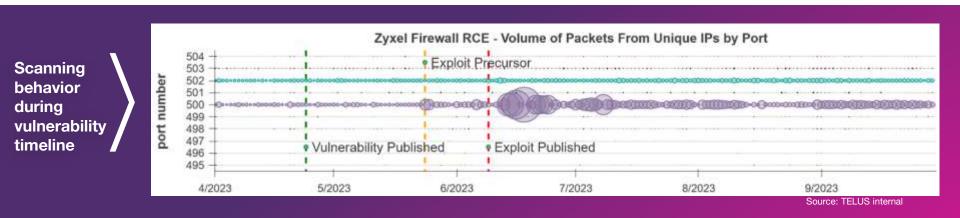
3.5 billion

(2X since 2020)

Attacks attempting to infect TELUS systems with malicious software

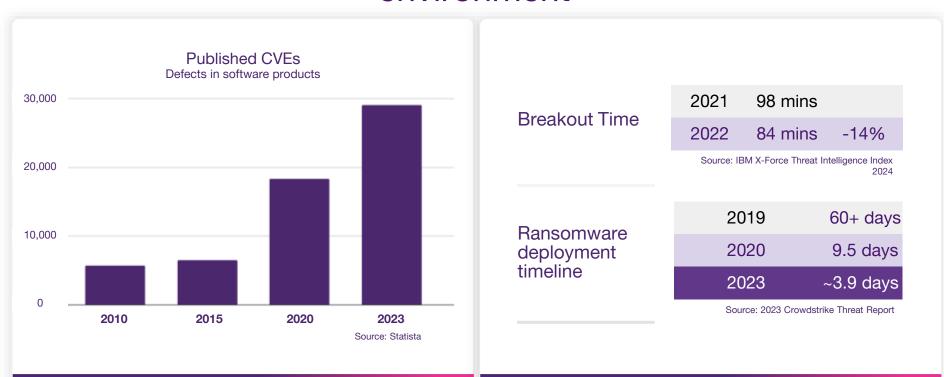


Our experience in 2023



Published exploit for remote unauthenticated command injection in Internet Key Exchange (IKE) packet decoder over UDP port 500 CVE-2023-28771

All trends point to an increasingly challenging environment



TELUS saw an 110% increase in critical vulnerabilities in 2023

TELUS observed attempted ransomware deployment in as little as 2 days in 2023

All trends point to an increasingly challenging environment

Increasing number of attacks

YoY growth in vulnerabilities

Speed of exploit

83%

experienced attempted ransomware attacks*

Top vectors

Misconfigs Email Known vulnerabilities Zero-day 3rd party **143%** increase in incidents in Q1 2023**

93% increase in data exfiltration attacks 2019 to 2022**

2.5x

increase in likelihood of paying ransom for attacks involving data exfiltration**

24% took weeks to months to contain*

Breaches that are not detected and contained quickly can be 1000x more expensive**



Experiences from the field: social engineering

Email, SMS or call directing employee to a company SSO page

2 Employee enters credentials/OTP or receives multiple MFA requests

TA uses credentials to login and take over employee account

Reconnaissance of business processes, documents and systems

Objectives / Data exfiltration and / or ransomware deployment

IT Helpdesk support ticket

Offers of money

Threats of physical violence

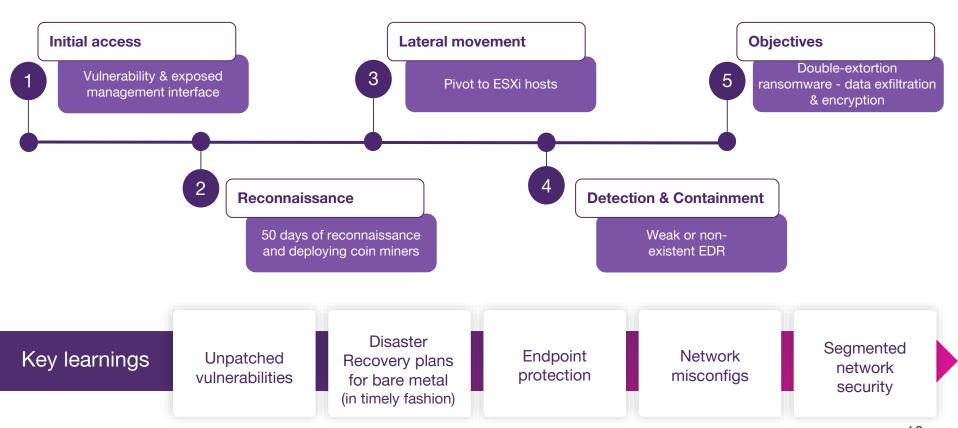
Key learnings

Phishingresistant 2FA Human firewall and security awareness training

Threat intelligence & awareness

Detections focused on identity

Experiences from the field: unpatched vulnerabilities



Experiences from the field: the third party factor

Zero day vulnerability

- Clop group exploited zeroday vulnerability against internet-facing systems running MOVEit file transfer software
- Data was exfiltrated and used for extortion

2700

organizations impacted, many of them as third or fourth parties

84 million

people impacted

Impact

Managing multiple concurrent incidents added strain to responding teams

\$100M

estimated in ransoms paid

Key learnings

Threat intelligence & monitoring of partners

Third party / supplier security program

Data mapping and awareness

Incident response plans for multiple, concurrent ransoms

Organizations need to be cyber resilient

A cyber resilience strategy gives you the ability to withstand and recover from cyber attacks.

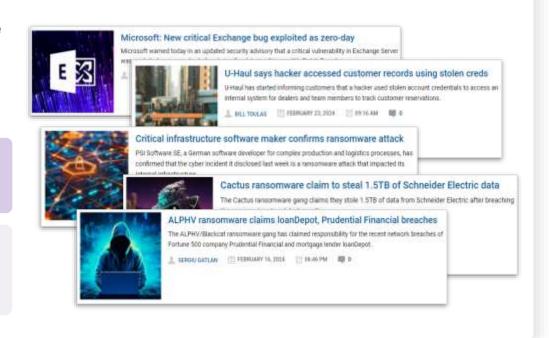
It requires:

Proactive measures

Continuous monitoring, threat intelligence gathering, regular testing and updating security measures

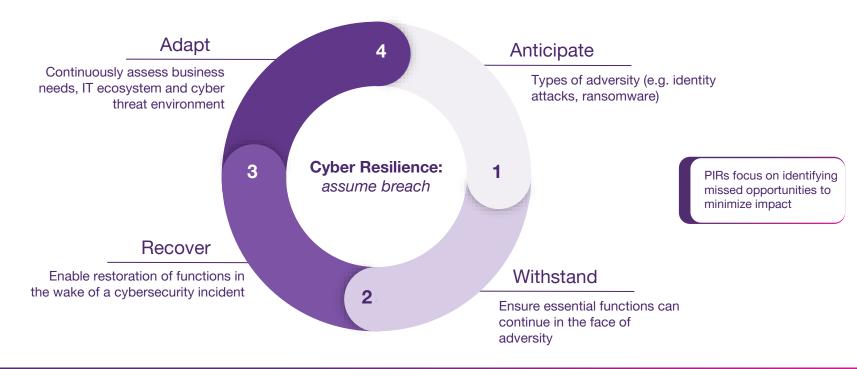
Reactive Strategies

Restoring systems and service, mitigating effects of attacks, relying on incident response and backups to minimize downtime, and financial loss



As evidenced by daily news stories, organizations cannot always prevent attacks - however, they can minimize the impact of attacks that manage to bypass their defense systems

Adapting to this new normal requires a shift in mindset



Cyber resilience is the ability of an organization to withstand, adapt to, and recover from cyber attacks while maintaining essential functions and protecting critical assets.

Maintain a solid foundation of core controls as you evolve towards cyber resilience

Core security controls

Good hygiene and controls that align to modern defense-in-depth and secure-by-design principles

Cyber resilience

Limiting impact from ransomware by adopting strategies to anticipate and recover quickly

Evolving threat landscape

Degrading threat landscape with increasing attack surface, traffic and decreasing exploit time

TELUS Canadian market research



The **TELUS Canadian Ransomware Study** shares insights about how Canadian organizations are tackling the challenge of ransomware.

telus.com/RansomwareStudy



The **TELUS Canadian Cloud Security Study** shares insights on the security challenges of cloud adoption amongst Canadian organizations.

telus.com/CloudSecurityStudy



The **TELUS Canadian Cyber Insurance Study** shares the realities of obtaining and maintaining insurance plus the outcomes of submitting a claim.

telus.com/CyberInsuranceStudy



Studies can also be downloaded using this QR code

Thank you