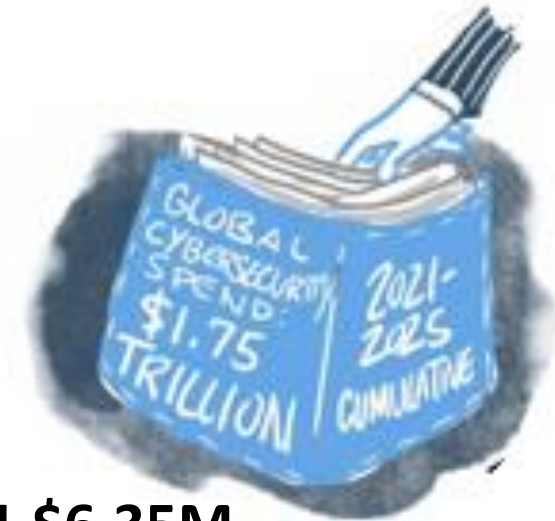

Ricoh Canada IT Cyber Resilience





CYBER SECURITY INDUSTRY: TRENDS & PREDICTIONS



Average Data Breach in Canada – 2021 \$6.35M



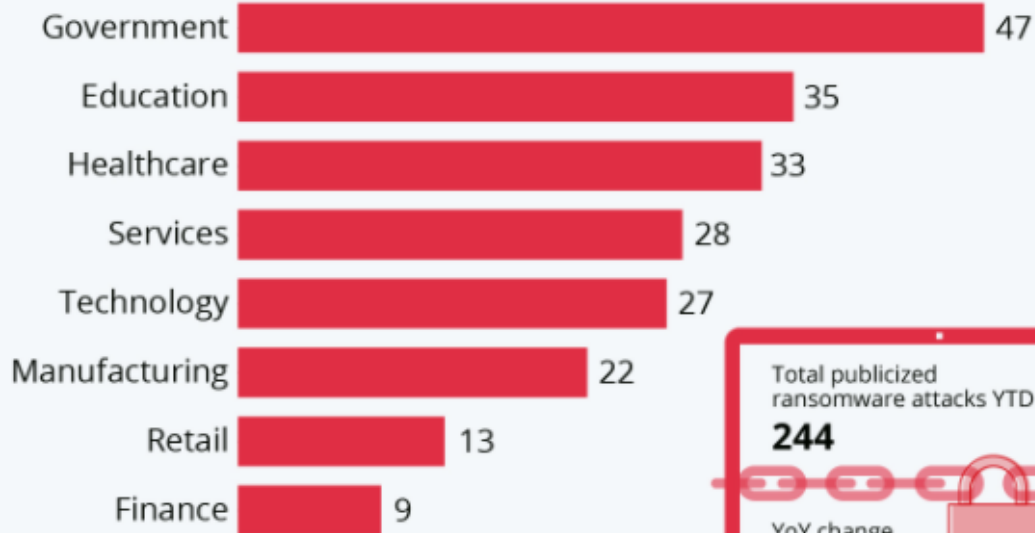


CYBER SECURITY TRENDS: RANSOMWARE

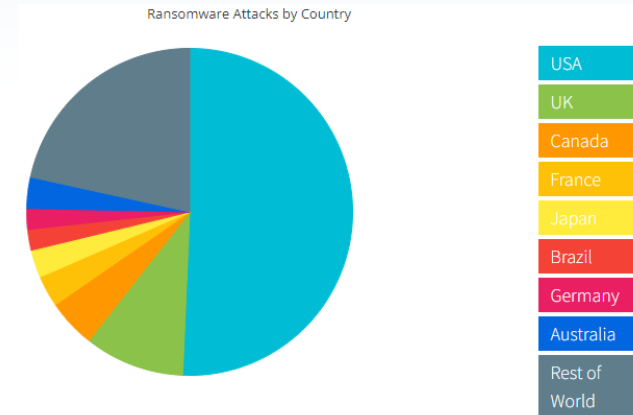
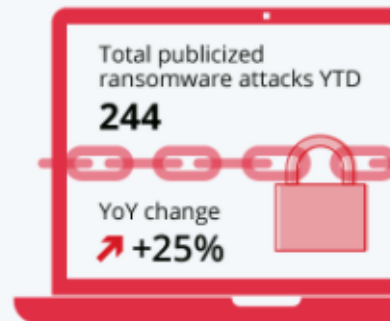
Ransomware attacks cost Canadian organizations an average of \$458,247 last year

The Industries Most Affected by Ransomware

Number of publicized ransomware attacks worldwide by sector in 2021*



* As of Nov 1, 2021
Source: Blackfog



Espionage is the motive behind

11%

of attacks on educational institutions.



Average cost to education institutions \$2.73 million to remediate the impact of a ransomware attack



CYBER RESILIENCY: MODEL & FRAMEWORK



IDENTIFY



PROTECT



DETECT



RESPOND



RECOVER

The average days of downtime due to ransomware outbreaks in 2021 was 19 days



STEP 1
SYSTEM
HYGIENE



STEP 2
DEVELOP
A PLAN



STEP 3
MAP OUT
RISK PROFILE



STEP 4
ASSESS &
MEASURE



STEP 5
MITIGATE
RISK



STEP 6
CYBER
INSURANCE



STEP 7
GET
STARTED



CYBER RESILIENCY MITIGATION: ZERO TRUST PRINCIPLES

Verify:

Authenticate and verify— on an ongoing basis

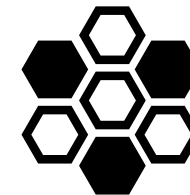


Give minimal access:

Segment the network to create small zones of control

Control access to applications, data, resources

Grant least privilege access based on need or role



Assume Breach:

Plan as if attackers are inside and outside the network

Forget the concept of a “trusted zone”, e.g., ‘in the office’

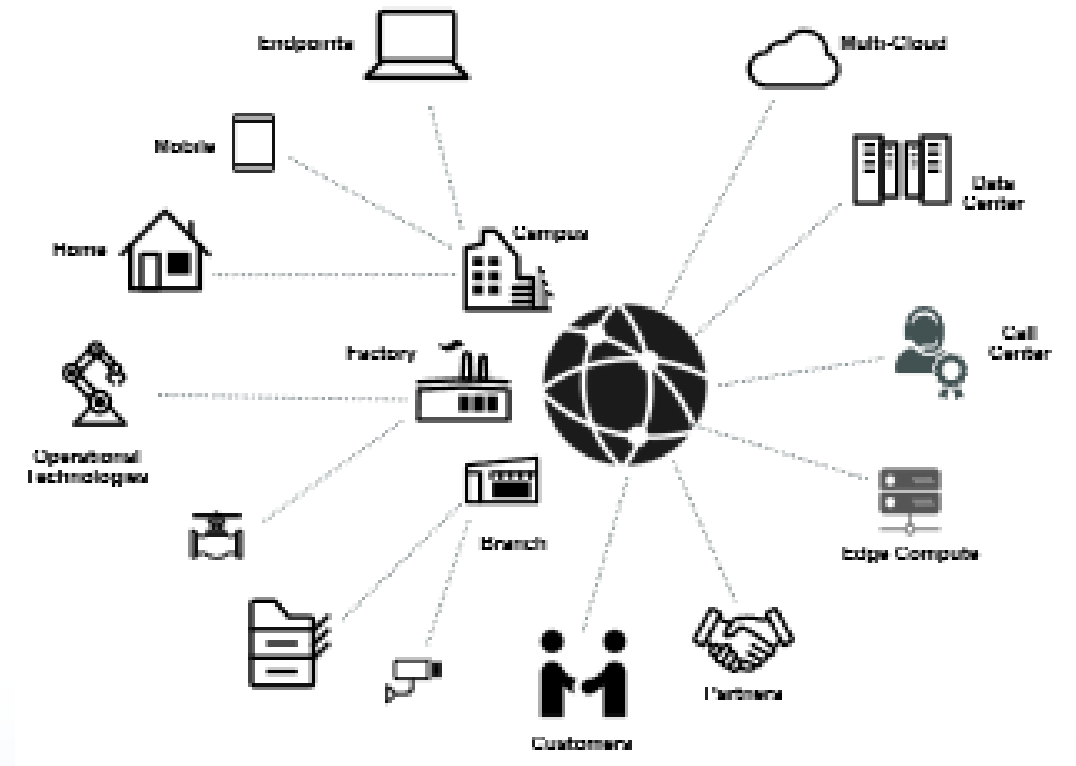




CYBER RESILIENCY MITIGATION : ZERO TRUST ACCESS

Knowing and Controlling Everyone
and Everything on and off the
Network

Ensures consistent security policy
across the network, the cloud, and
off-network

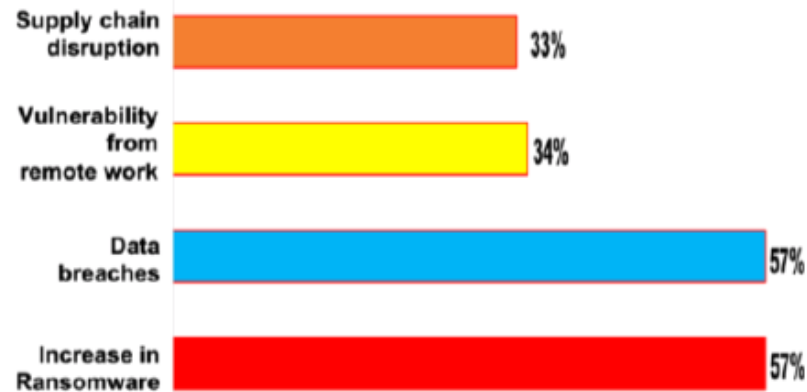




CYBER SECURITY MITIGATION: CYBER INSURANCE TRENDS

Cyber Concerns for 2022

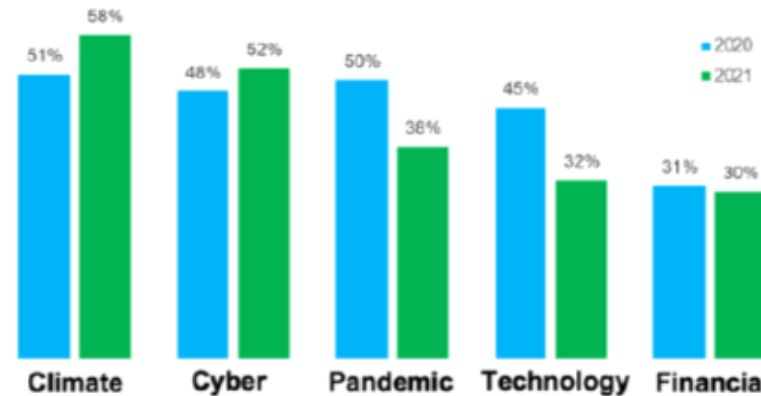
57% of Cyber Pros worry about more Ransomware



Survey of > 2,000 professionals
Published January 2022

Top 5 Emerging Risks

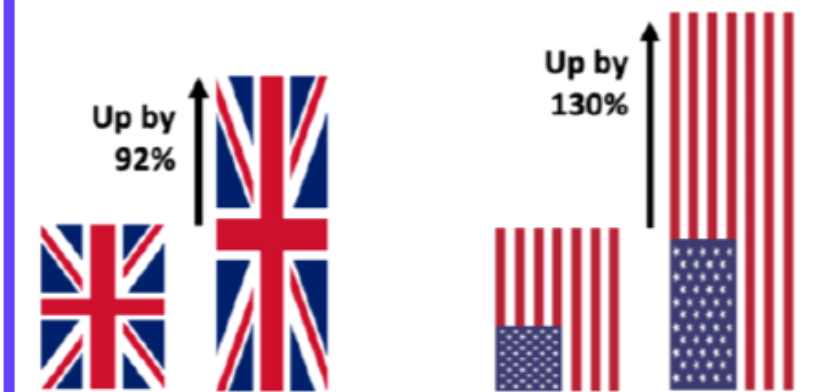
Actuaries say Climate and Cyber are top Risks



Survey of 153 Actuaries
Published February 2022

Cyber Insurance Prices: x2

Price of Insurance rose 130% in 12 months in USA



Global Insurance Market Index
Published February 2022

1. Increase in Demand

2. Tighter Terms and Exclusions

3. Rising Premiums

4. Lower Coverage Limits

5. Increase in Self-Insured Retention Levels



CYBER RESILIENCY MITIGATION: TOP 10 TIPS

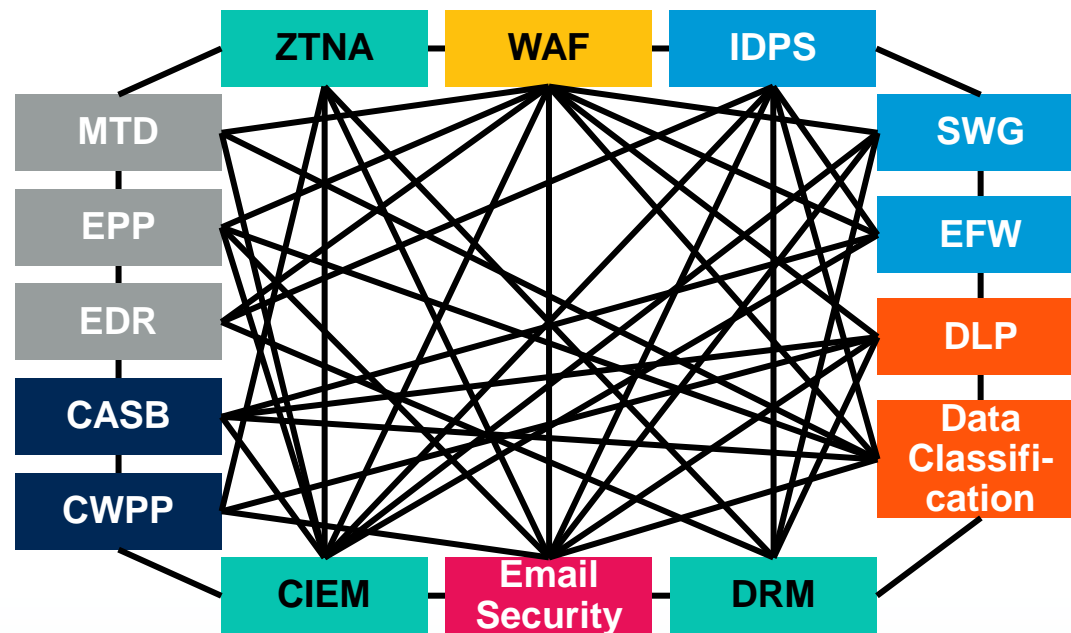
1. Inventory all systems in your environment
2. Make patching systems in a regular and timely fashion a priority
3. Externally scan the environment
4. Train Faculty and Students how to identify phishing emails
5. Follow the principles of least privilege and zero trust access
6. Practice good password hygiene
7. Update antivirus on endpoints and servers and set them to automatically conduct scans
8. Properly segment the network
9. Ensure critical systems and files have up-to-date backups
10. Have an Incident Response Plan and Process that is up-to-date and tested in place



GARTNER CYBERSECURITY: MESH ARCHITECTURE

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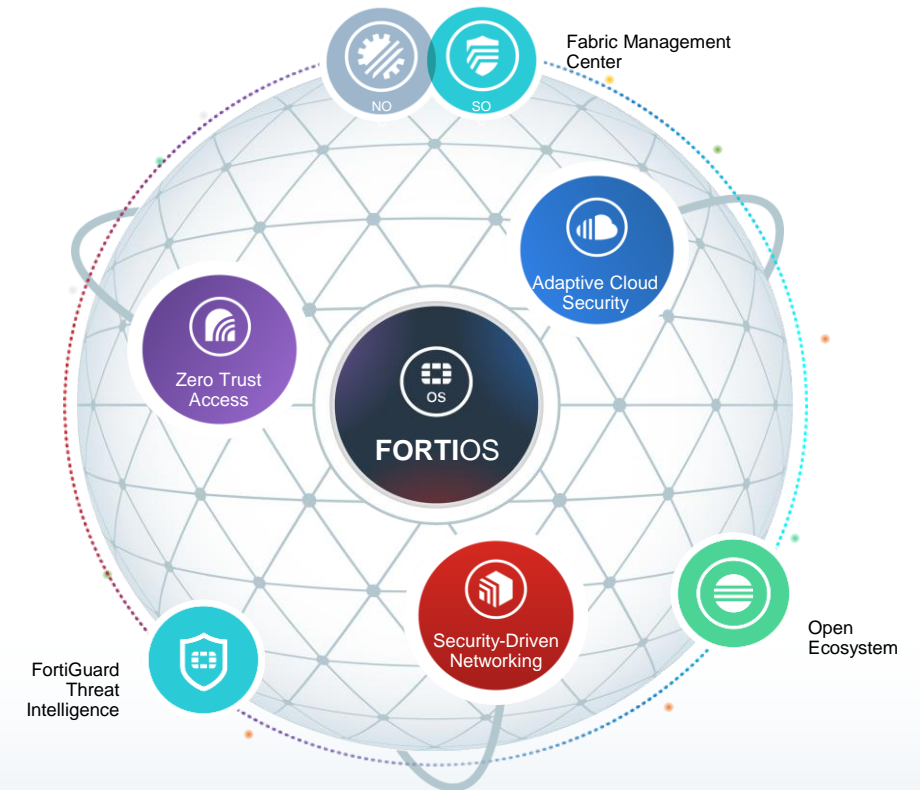
Executive Guide to Cybersecurity Mesh, 2022

Felix Gaehtgens, James Hoover, Henrique Teixeira, Claudio Neiva, Michael Kelley, Mary Ruddy, Patrick Hevesi. As of October 2021

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