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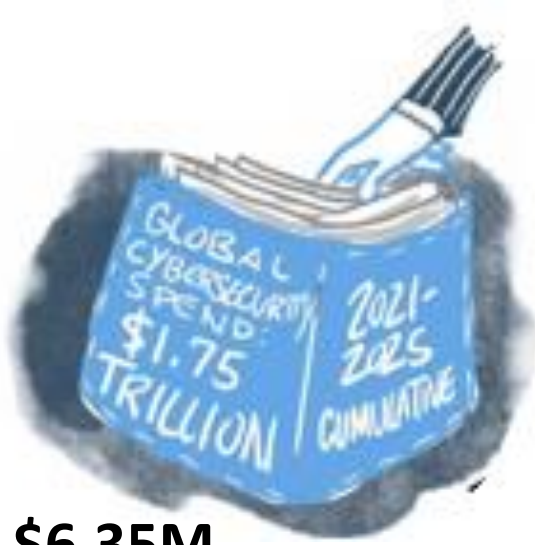
# Ricoh Canada IT Cyber Resilience

# CYBER SECURITY INDUSTRY: TRENDS & PREDICTIONS

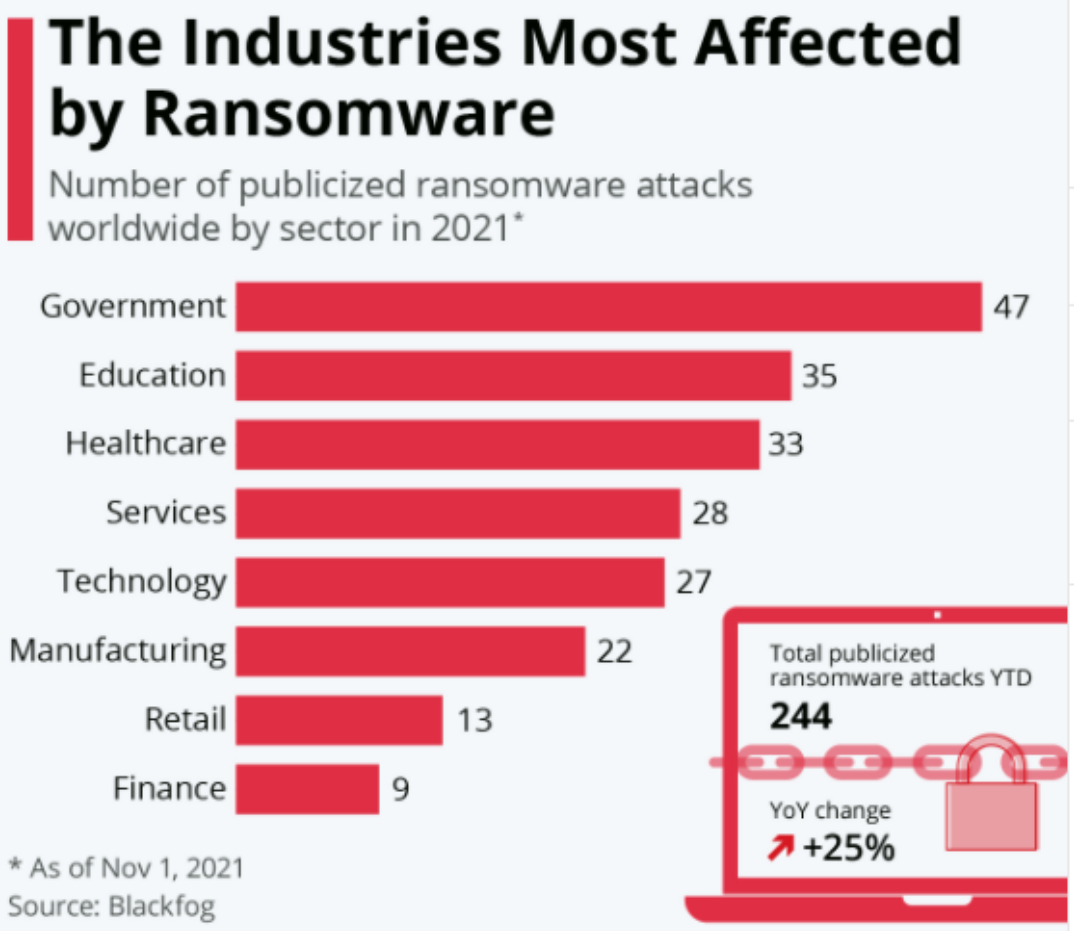


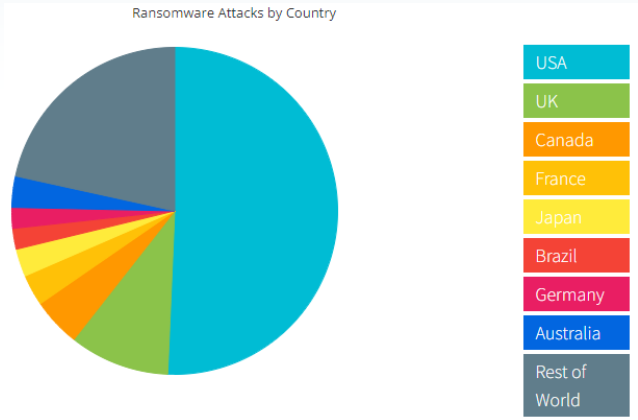

**Average Data Breach in Canada – 2021 $6.35M**

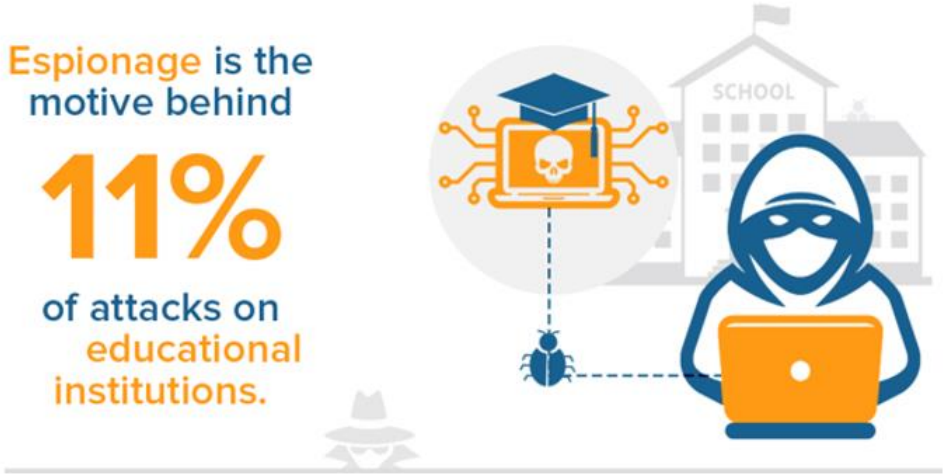
Source – Cybersecurity Ventures 2022 Almanac

# CYBER SECURITY TRENDS: RANSOMWARE

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



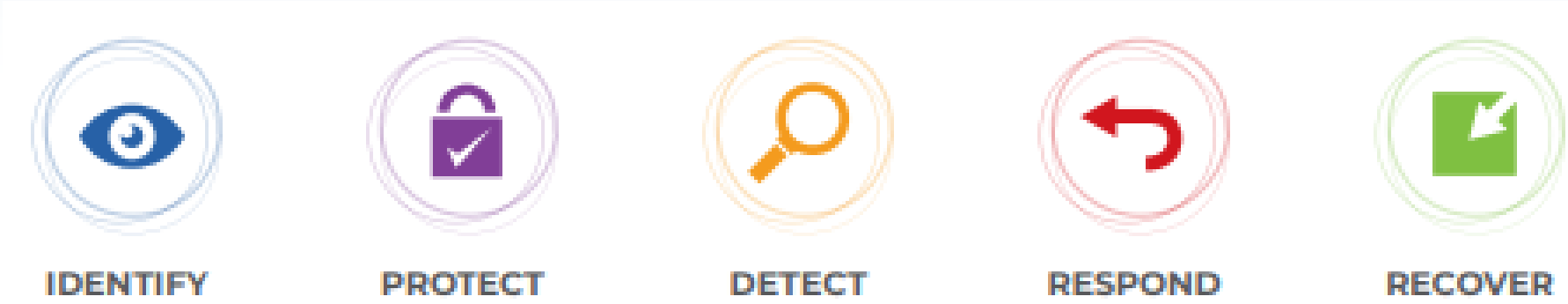




**Average cost to education institutions $2.73 million to remediate the impact of a ransomware attack**

Black Fog – State of Ransomware 2021

# CYBER RESILIENCY: MODEL & FRAMEWORK

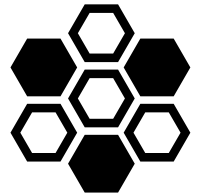



**The average days of downtime due to ransomware outbreaks in 2021 was 19 days**

# 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

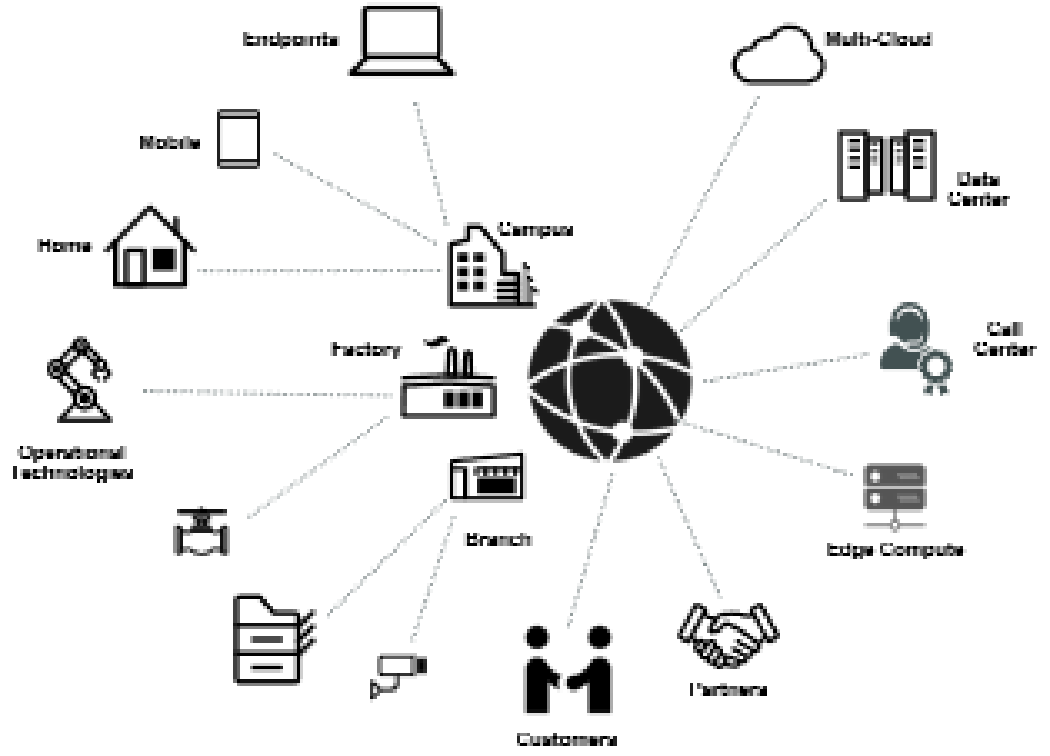


**Assume Breach:**
Plan as if attackers are inside and outside the network
Forget the concept of a “trusted zone”, e.g., ‘in the office’

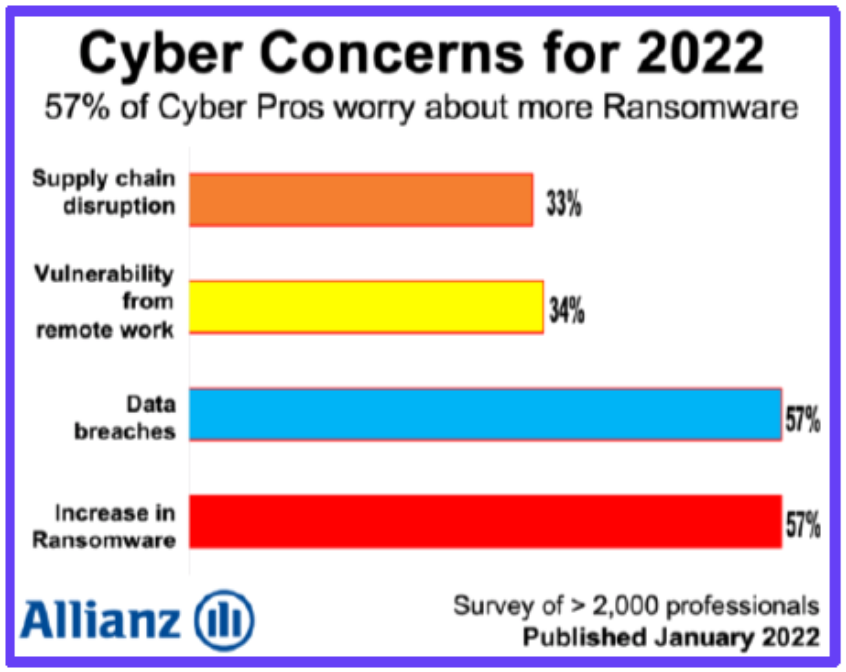
# CYBER RESILIENCY MITIGATION : ZERO TRUST ACCESS

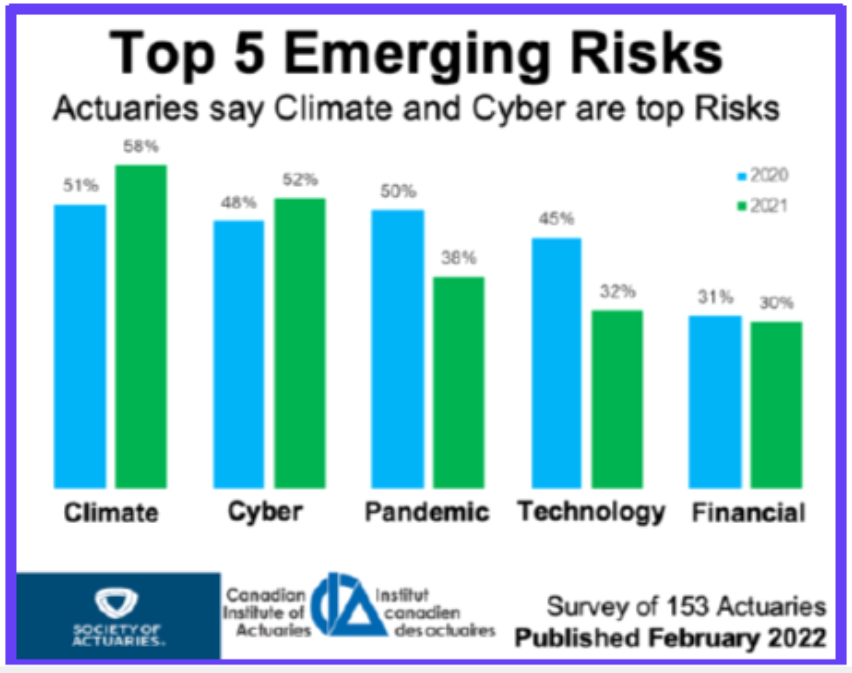
Knowing and Controlling Everyone and Everything on and off the Network

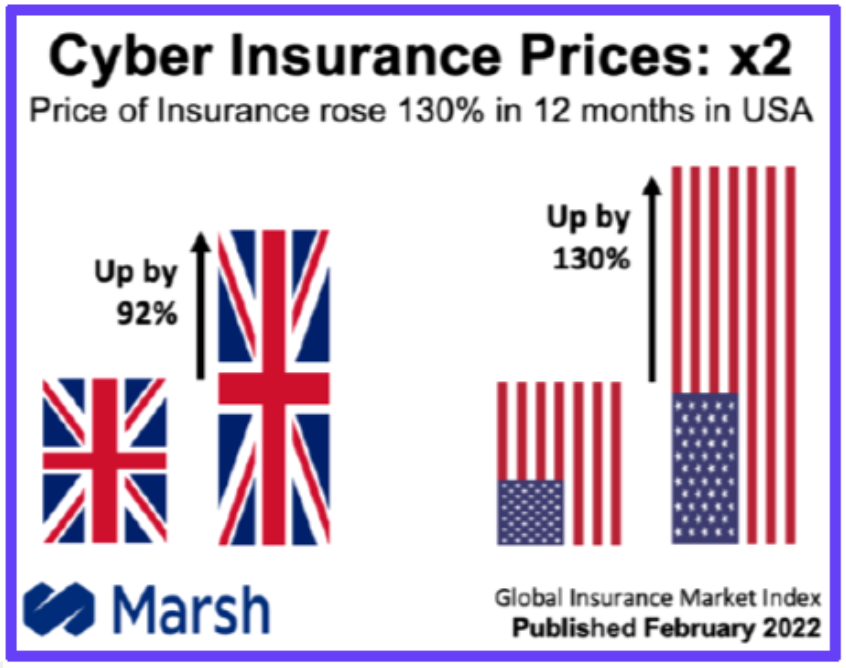
Ensures consistent security policy across the network, the cloud, and off-network



# CYBER SECURITY MITIGATION: CYBER INSURANCE TRENDS




**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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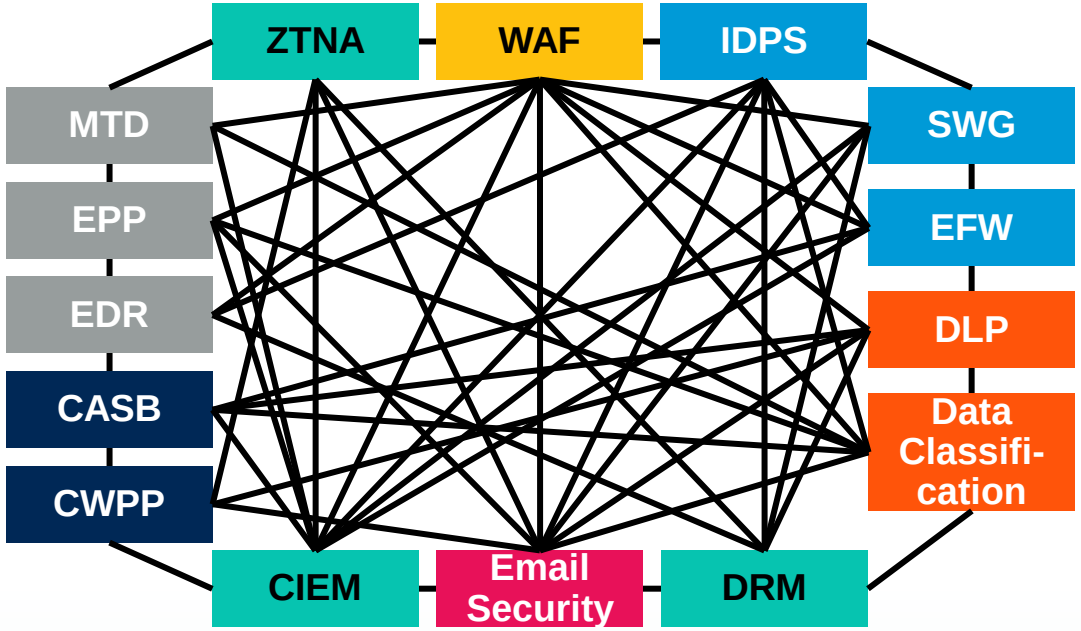


Executive Guide to Cybersecurity Mesh, 2022

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

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