



# Aon Cyber Solutions

SARM ANNUAL CONFERENCE

MARCH 9th 2020





## **Agenda**

- 1. Acceleration of cyber threats**
- 2. Threat topography**
- 3. What it means for municipalities**
- 4. What data is at risk**
- 5. Pillars to Cyber Resilience**
- 6. What to do if you experience a breach**
- 7. Quick overview of the cyber insurance policy**

# Acceleration: or what is a « Viral Infection »



# Hackers are more sophisticated

Dossier Affichage Dites-nous ce que vous voulez faire

Rechercher dans Éléments supprimés Dossier actuel

Éléments supprimés Par Date ↑

[Récupérer les éléments récemment supprimés de ce dossier](#)

**Audet, Marie-Josée**  
RE: Départ Corinne Caon 17/10/2019  
Marc sera en vacances la semaine du 28 octobre. Toutefois, les 11, 12 et 13

**Scott Melville**  
RE: Quick ACL question - Teral... 17/10/2019  
Hi Catherine, Thanks for letting me know! Did you enjoy the summit?

**Scott Melville**  
RE: Quick ACL question - Teral... 17/10/2019  
Hi Catherine, Apologies for the delay. We'd need to take a closer look at the insured, but

**Brian Rosenbaum**  
RE: Please Review - Cyber Sol... 17/10/2019  
This looks very good. The deck is easy to read and I like the visuals.

**Mondaq Newsletters**  
**Mondaq Personalized News ...** 17/10/2019  
Please make sure newsletters@mondaq.com is added to your safe senders list

**Colin Dhillon**  
Dhillon Proposal 17/10/2019  
The attached PDF is encrypted by our IT team and it's 100% virus free. Please click access

Thu 17/10/2019 12:15 PM

**Colin Dhillon** <cdhillon@apma.ca>  
**Dhillon Proposal**

À

Stratégie de rétention Deleted Items 90 Day Delete (90 jours) Date d'expiration 15/01/2020

**Dhillon Proposal**  
Élément Outlook

The attached PDF is encrypted by our IT team and it's 100% virus free.  
Please click access document and login to review the sensitive information i sent you.  
Thanks

Best Regards,

**apmaTEC**  
Division of **APMA**

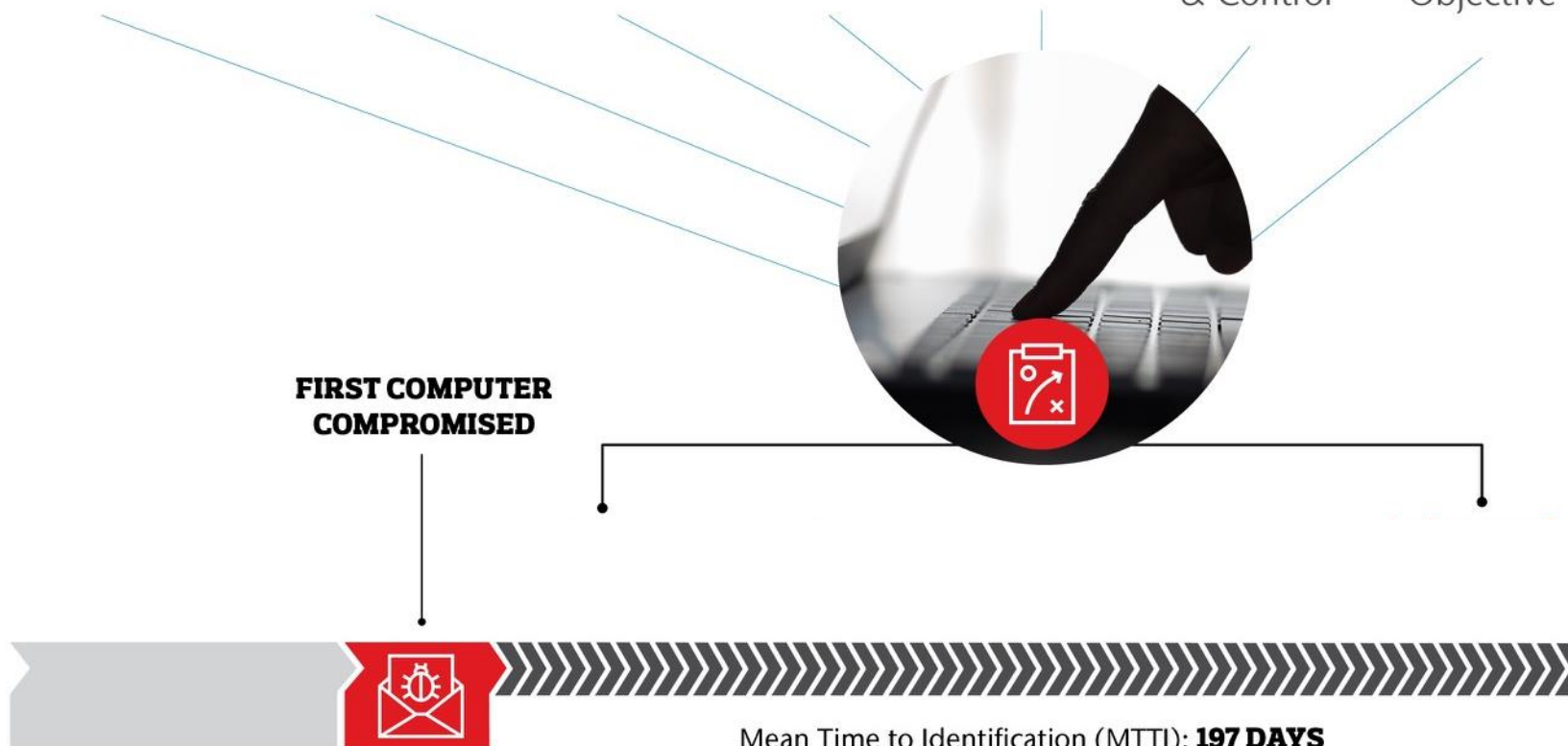
**Colin Singh Dhillon**  
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**FIRST COMPUTER  
COMPROMISED**



2018 Cost of Data Breach Study: Impact of Business Continuity Management  
Benchmark research sponsored by IBM | Independently conducted by Ponemon Institute LLC



# We are not in Kansas anymore...

## If cybercrime was a country, it would rank **13th** in GDP

(Cybercrime report by Bromium & McGuire, according to 2018 GDP data from the World Bank)

"Now insureds are aware that even the best IT security is still vulnerable to the most skilled hackers in the world."

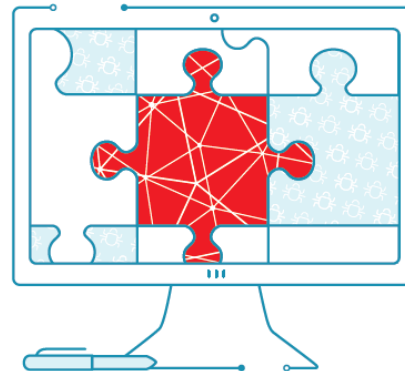
**Luke Foord-Kelcey**

CO-HEAD OF AON BENFIELD'S GLOBAL CYBER PRACTICE

**Aon**

## Acceleration of cyber threats

1. Cyber attacks are increasing in frequency and magnitude
2. Cyber crime is an economy
3. Influence of the socio-political context



## What it means for Municipalities

- 1 in 4 local governments will fall to ransomware
- Ransomware hit over 70 US municipalities (Jan to Sept 2019)
- 24% were municipalities of populations under 15,000



Source: US statistics from IT security firm Baracuda Networks



## What data is at risk



# Case Study: Ontario Municipality Ransomware attack in 2018



Ransom Payment	\$34,950
Computer Consultants	\$37,181
Physical Security Vendor	\$4,725
IT Purchases	\$1,901
Third-Party Software Vendors	\$9,590
Internal Staff Overtime	\$31,370
Internal Productivity Losses	\$132,042
<b>Total Cost of Ransomware Incident</b>	<b>\$251,759</b>

Source: CTV News. 24 July 2018 and Canadian Municipal Government Meeting Agenda (24 July 2018)

# Pillars to Cyber Resilience



## Assessment

Baseline understanding of all network and system vulnerabilities.



## Prevention

Best practices to reduce the likelihood and potential damage of a cyberattack.



## Response

Prompt and efficient response to reduce the impact of a cyber incident.

# Assessment



Canadian Center for Cyber Security





## **Assessment: Managed Service Provider (MSP attacks)**

- We are back to a feudal system
- APT10 (China) and other State-Sponsored actors = MONEY
- Victims include:
  - IBM, CGI, Rio Tinto, American Airlines, Deutsche Bank, Allianz SE, ...

# Prevention

- How to maximize IT security with limited budgets?
- Better spending money on **cyber hygiene**, than lawyers or ransoms.

## Good quality cyber hygiene

- Password management
- Stay current on security updates
- Regular backups
- Awareness and education
- If it is suspicious... investigate!
- Insurance (crisis response)





## **Prevention: What makes a strong password**

- Unique
- Hard to guess
- At least 10 characters
- Mix of upper and lower cases
- Letters, numbers and symbols

**Hint: this is also valid for “at home” devices and systems!**



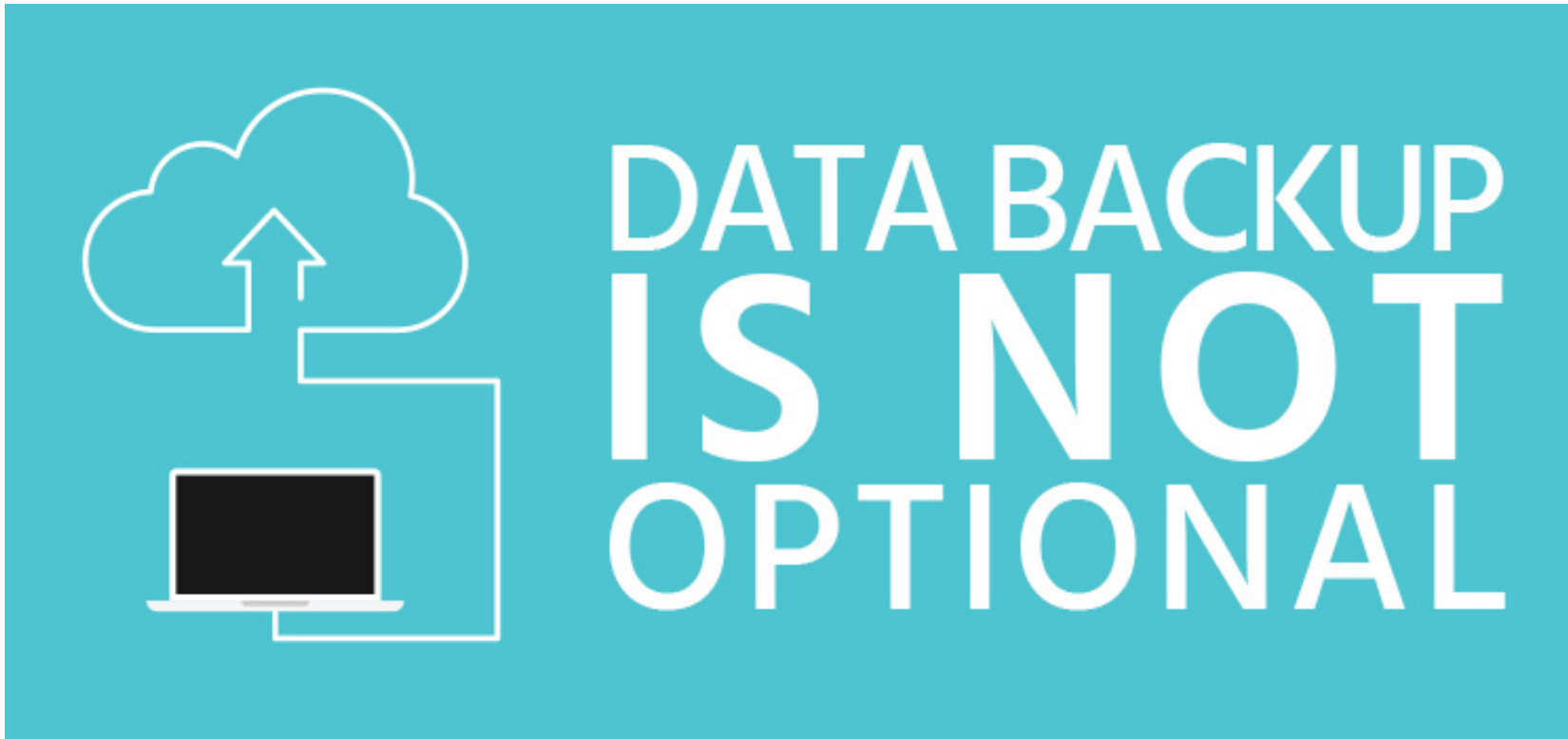
## Prevention: Strong password example

**MsitB&ho7!**

*Passphrase: My son is the Best & he's only 7 !*



## Prevention: Regular backups





## Response: What to do if you experience a breach

- Legal advice (*Breach coach*)
- Expert IT investigation (*Forensic*)
- Notification and call center
- Mitigation (ID theft and credit monitorign)
- PR and communication experts

# Quick overview of the cyber policy

## First party



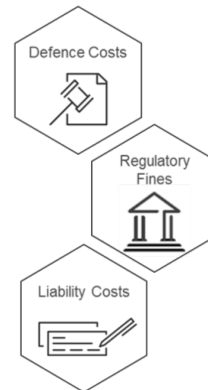
- Incident Response
- Cyber extortion
- System Damage and digital asset restoration
- Network Business Interruption / Dependent BI
- System Failure



## Third party



- Network Security and Privacy Liability
- Privacy Regulatory Fines and Penalties
- Media Liability
- PCI Fines and Penalties
- Breach Event Expenses (notification, credit monitoring)



## Cyber policy answer to cyber crime

Extortion

Fund Transfer  
Fraud

Social  
Engineering



# In Conclusion

Organizations enter the loop at different points.

