

Cybersecurity Briefing

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Cybersecurity has never been as imperative



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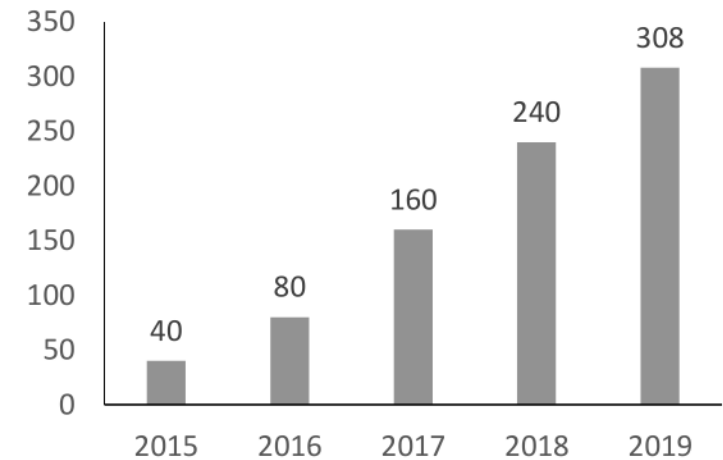
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Background / Context

- cyber attacks and climate change are top two risks facing business and government globally according to World Economic Forum 2020 report
- global annual cybercrime will cost the world in excess of \$6 trillion annually by 2021
- global spending on cybersecurity defence will exceed \$1 trillion over next 5 years
- global shortage of cybersecurity professionals currently at 3 million

Unauthorized access attempts per day (millions)



BC Government network faces 308 million unauthorized access attempts daily

World Economic Forum states cyber attacks and climate change are the top 2 risks globally of concern to business leaders in advanced economies (WEF Global Risks Report, 2020)

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Ransomware

- common type of cyber attack is ransomware
- data is encrypted by malware contained in websites and email attachments
- attacker demands payment to provide keys to decrypt data
- organizations with backups can restore files and avoid paying



**Nunavut reels after 'ransomware' attack
knocks out government services**



**Food vouchers replace cheques in Nunavut
as government struggles with cyber attack
aftermath**

Extortionware

- attackers realized if organizations have backups they are unlikely to pay
- new malware encrypts the data but sends a copy of the data to the attacker first (breach)
- attacker threatens to post data online if organization doesn't pay
- backups are insufficient and organization may need to pay



LifeLabs says it paid ransom to secure millions of customers' stolen medical data



Targeted Organizations

s.13; s.15

B.C. city's computer system suffered malware attack last year

No personal data was compromised when City of Cranbrook was hit by ransomware last spring.



Ransomware attack corrupts many of Squamish's municipal computer server files

District says no personal information was obtained, most files recovered

Coordinated Attack Holds 22 Municipalities Hostage, Marks Escalating Ransomware Threat

* Industrial Control Systems are threatened by ransomware and Department of Homeland Security is calling ransomware a National Crisis (Threatpost, 2020)

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Virus shuts down B.C. government email

By Michael Muir, 24 Hours Vancouver
Thursday, December 18, 2014 12:57:08 PST PM



Email servers for the B.C. government have been shut down. (FILE PHOTO)

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Next Steps

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Security Operations Centre for
BC Government

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Questions?

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