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Cyber Security Presentation for FEI Regina Chapter

February 27, 2018



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About SRG

- Security services company providing services across north America
 - Private Investigations Division
 - Guard Services Division
 - IT Security Division
- Head office in Regina founded in 1996
- Regional offices in Regina, Saskatoon, Vancouver, Calgary, Winnipeg, Toronto



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Industry Status

- Businesses are starting to focus
- Fear of being the next “Target”
- Reputation loss
- Heightened demand from Boards and Executives to show diligence on corporate asset protection
- Trends continue – malware and ransomware attacks on business are increasing and very sophisticated



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Attack Stats

- Malware threats per day – 25 in 2005, well over 200,000 today
- Exploiting weak security processes, existing technology vulnerabilities and people



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Attack Stats

- In 2017, many new ransomware families discovered representing thousands of new approaches





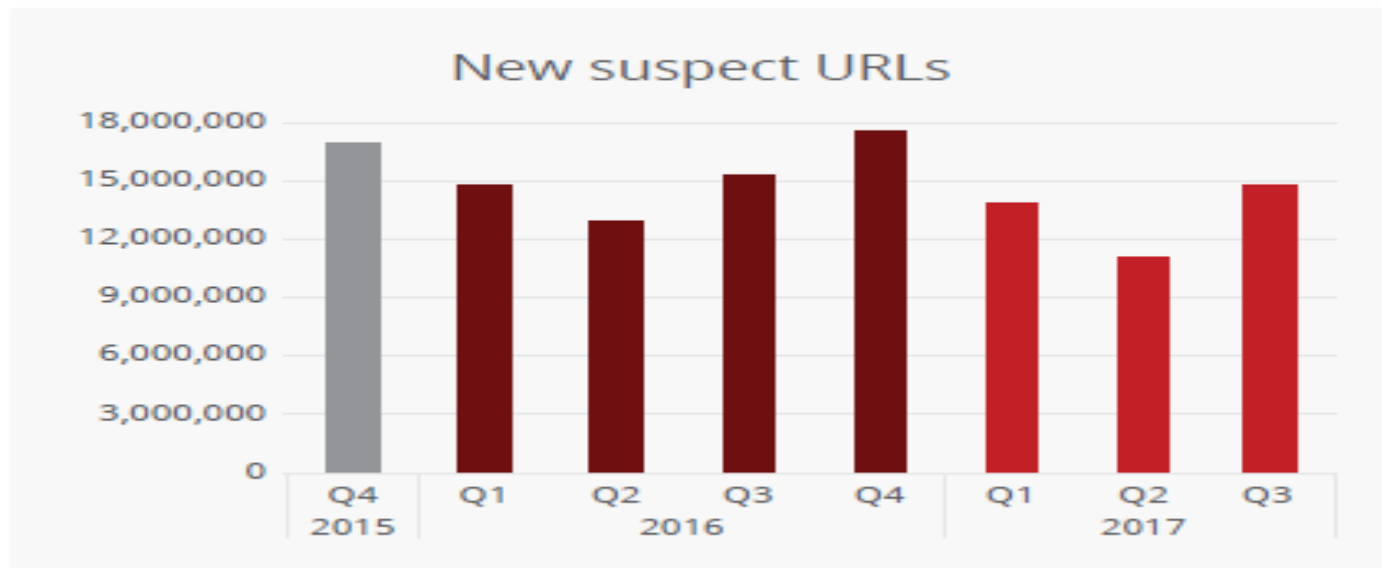
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Attack Stats

- Attacks are tracked by location – internet address

Web and Network Threats



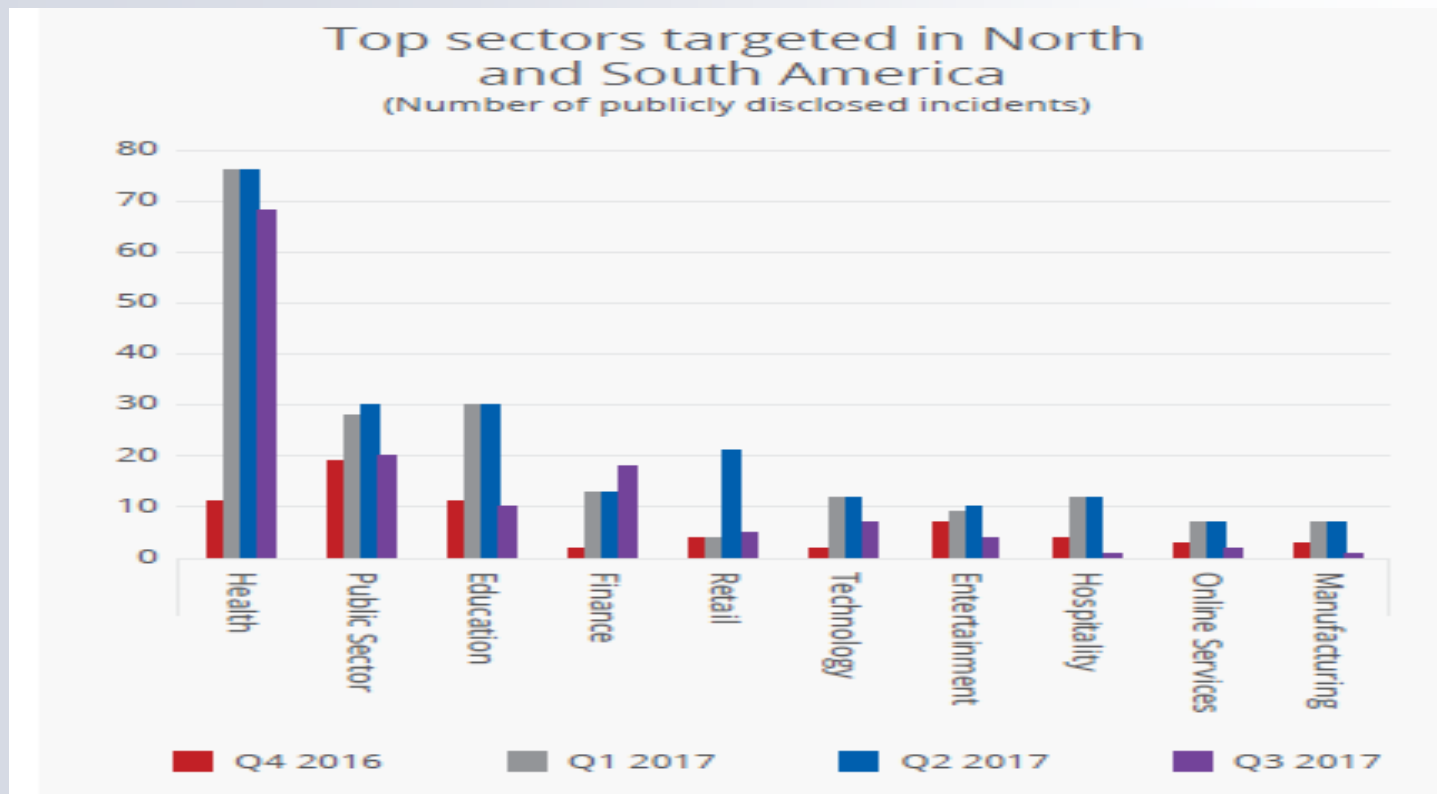
Source: McAfee Labs, 2017.



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Disclosed Incidents



Source: McAfee Labs, 2017.



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Disclosed Incidents

- 88% of compromises were executed in hours or less
- 98% of security incidents took weeks or months to discover



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- When discovered, shocked how much the bad actors really got





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Game Changer

- Automation Arms Race – Attackers vs Defenders work to out-innovate each other using automated techniques and technologies
- Not just hacking, now a job (persistent, clever, blended methods)
- Ransomware as a service – bad actors selling to bad actors



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Business Mindset

- Business mindset shift from **if** to **when** we get compromised
- Boards and executives asking IT operations and business owners to demonstrate their diligence
- Industry focus - from after the attack forensics to real time actions



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What Are Companies Doing

- Areas of focus:
 - 1) Employees
 - 2) Technology and Services
 - 3) Due Diligence



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What Are Companies Doing

- Employees
 - Awareness Programs
 - Security policies



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What Are Companies Doing

- Technology and Services
 - Layers of defense
 - Networks
 - Business applications
 - End points
 - Real time monitoring – listen to the technology
 - Operational best practices – backups
 - Partnerships for specialty skills



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What Are Companies Doing

■ Due Diligence

- Corporate security strategy development – Technology, process, people
- Regular testing – physical, virtual, people (prove it)
- Process – Incident Response (IR) and Data Classification (DC)



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Success

- Traditional ransomware success for defenders in 2017
- Still being hacked but paying less
 - Operational process improvements
 - Available tools such as decryption
 - Greater user awareness
 - Industry collaboration – sharing



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Industry Focus on Cloud

- Cloud is just another delivery model – nothing magic
- Focus on your company first
 - Have your company security strategy in place
 - Have your main processes in place (IR, DC)
- Partner contract management – are they secure



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2018 – What's Next

- Bad actor momentum will continue
- Ransomware shift
 - High net worth victims via targeted social engineering
 - From traditional PC and corporate system extortion to an imminent hacking rampage of consumer devices (cars, phones, home systems)



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2018 – What's Next

- Leverage Digital Artifacts – everything we do on the internet
 - Connected home devices will surrender privacy information to corporate marketers
 - Marketers observe and anticipate adult buying needs



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2018 – What's Next

- A new avenue for bad actors to hack people and the marketers to gain personal information
- Consumer applications (facebook) collection of children's content will pose long-term risk
- Focus on both adults and kids

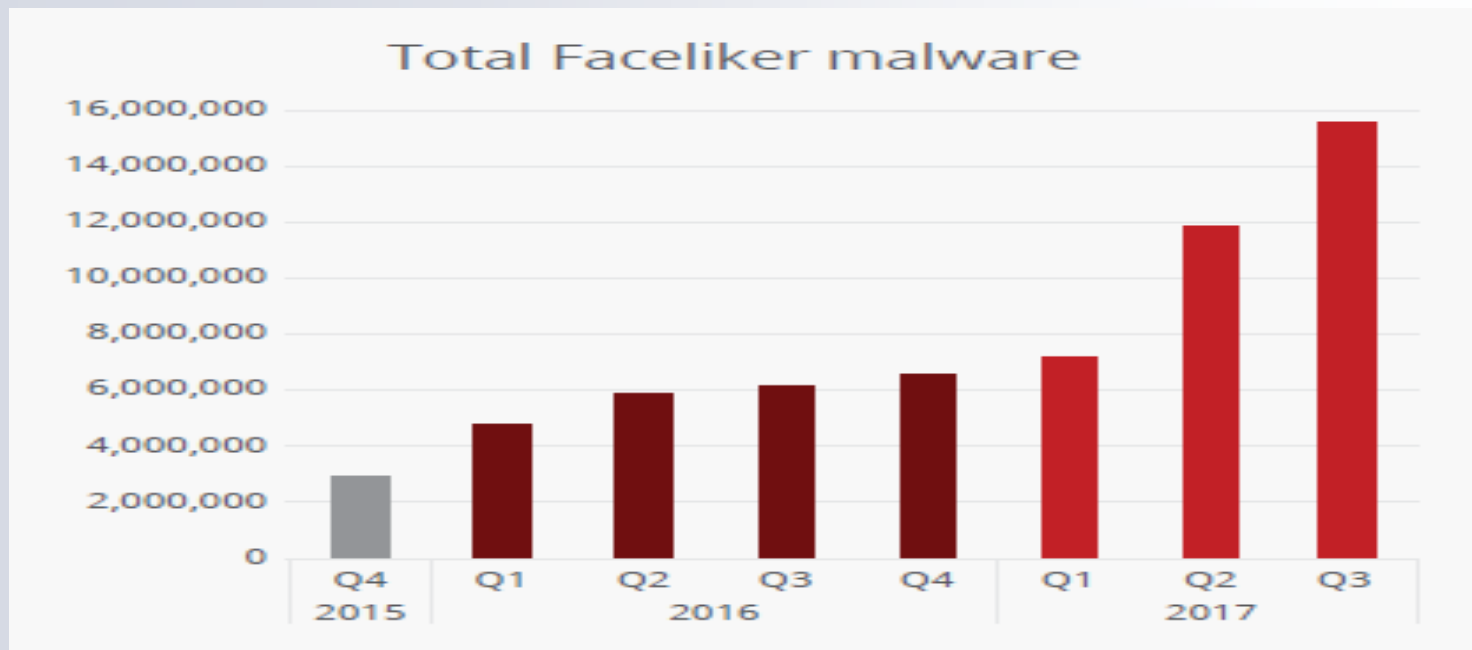


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New Attack Stats

- Faceliker malware manipulates facebook clicks to artificially “like” certain content



Source: McAfee Labs, 2017.

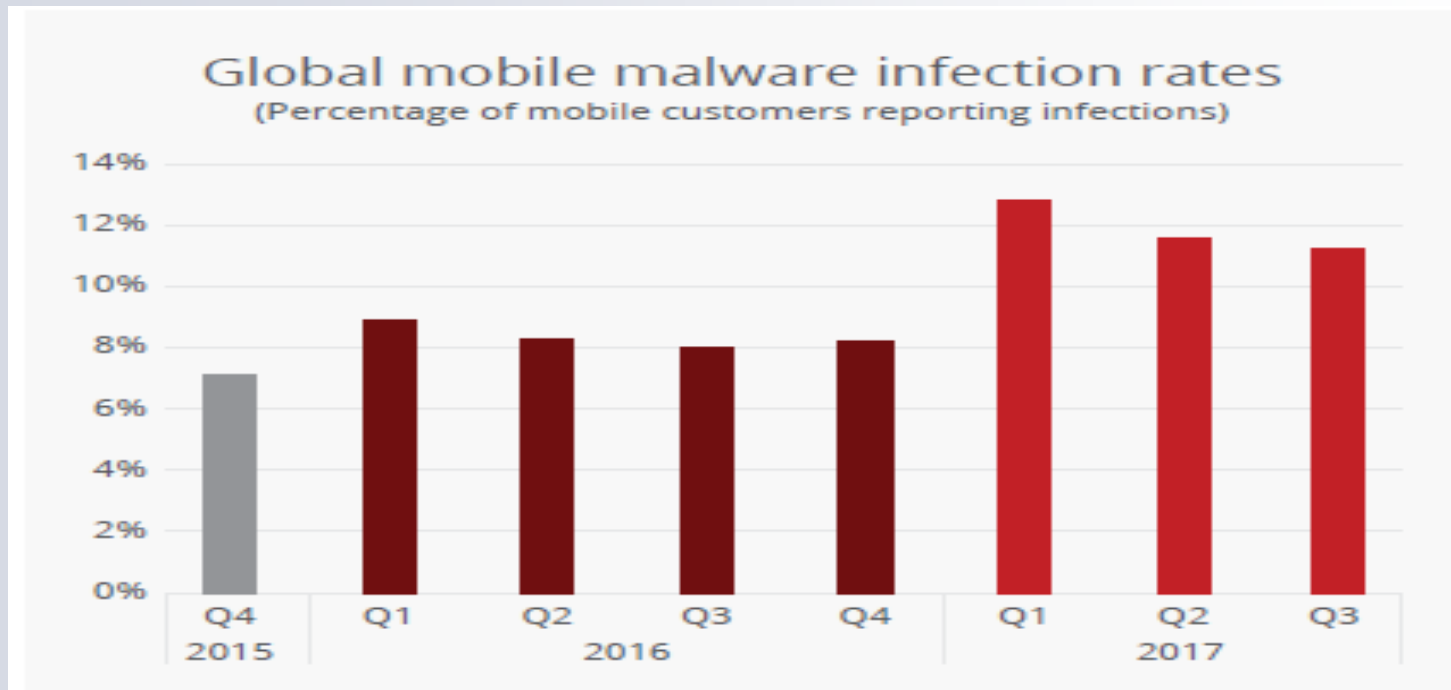


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New Attack Stats

- Mobile attack campaigns



Source: McAfee Labs, 2017.



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Closing Remarks

- Bad actors will continue their work
- Business success needs to continue (2017 defenders results)
- We need to continue the momentum, keep security top of mind (work, home)
- Security really is **everyone's business**



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