



## **How are cyber criminals attacking Kiwi companies?**

How should this change the way we manage the risk?

## What's the agenda?

**1**

**Are we getting attacked, and by whom?**

**2**

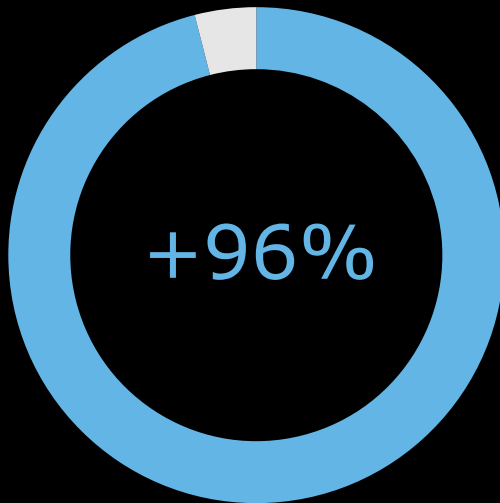
**What do they want, and how do they get it?**

**3**

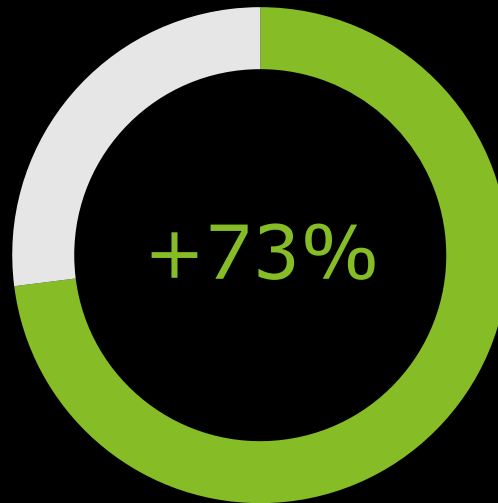
**What does this mean for us in terms of managing risk?**

## New Zealand is a target.

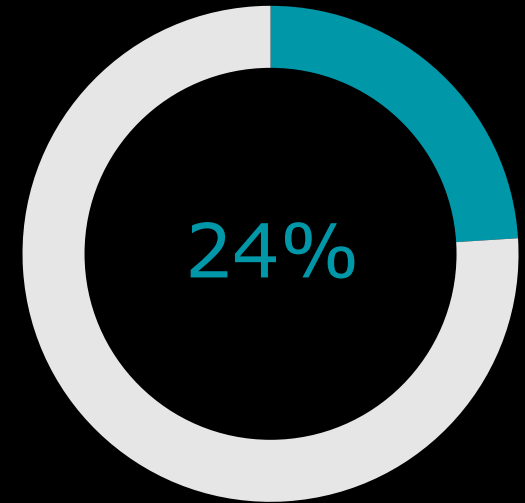
The number of recorded cyber attacks in New Zealand is rapidly increasing, as evidence by the significant increase in reported incidents in the past year.



Increase in  
attacks reported  
to CERT NZ 2018  
to 2019



Increase in the  
financial loss  
reported to CERT  
NZ



NZ SMEs that  
have experienced  
a cyber attack

*Credit: CERT NZ Report (Q1 2018/Q1 2019), Norton SMB Cyber Security Survey (2017).*

## Who is behind the cyber attacks in NZ?

We categorise cyber attackers into three groups:

### Opportunists

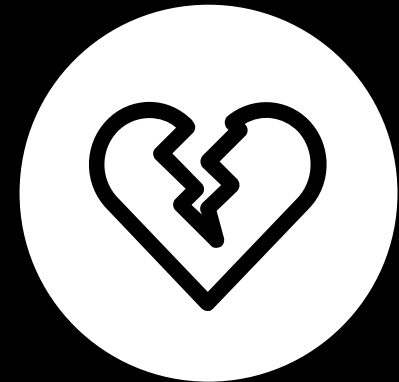


### APTs

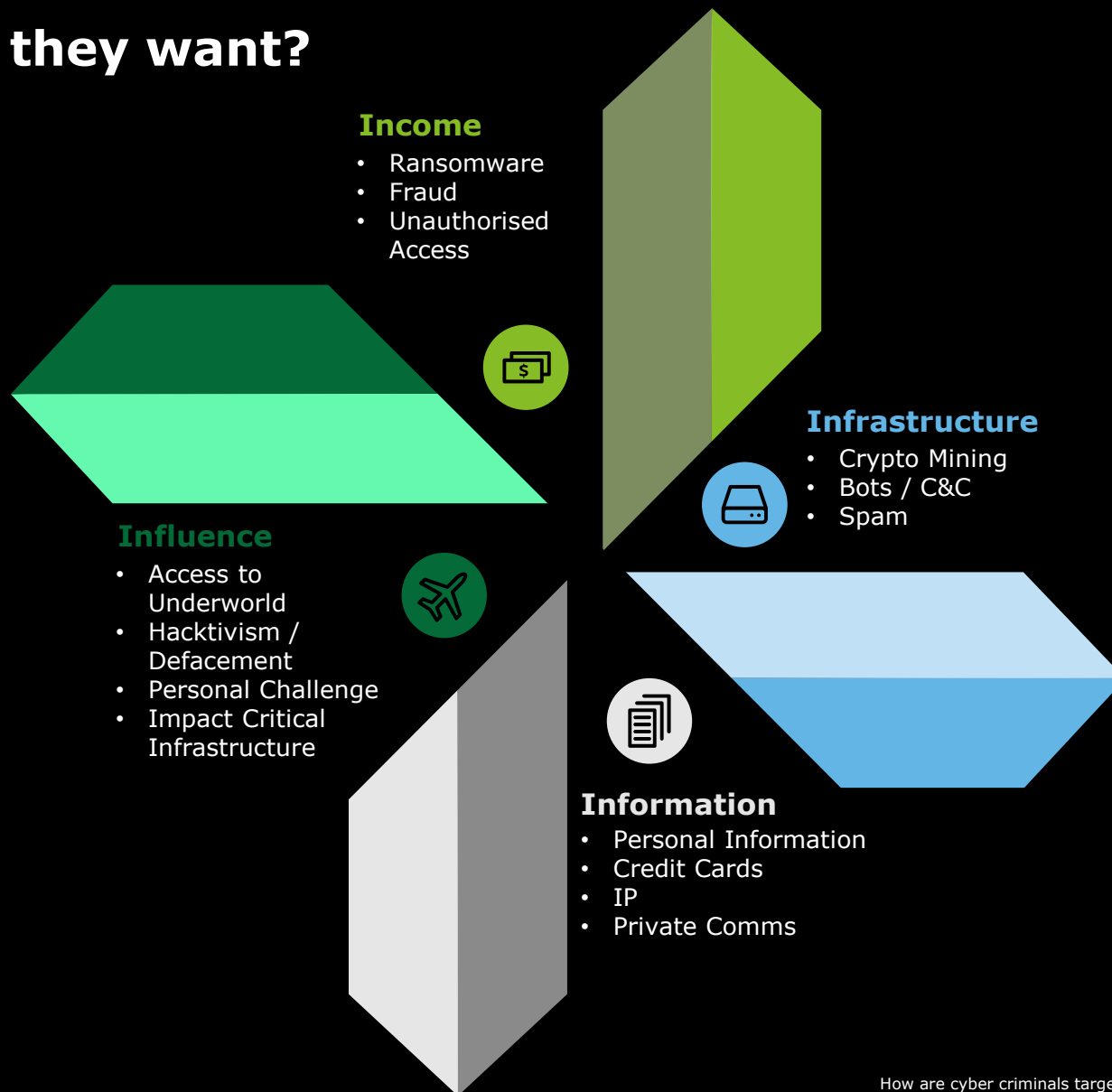
(Advanced Persistent Threats)



### Insiders



## What do they want?



## How do they get it?



1



### They get your password

- Brute force (now often Password Spray)
- Default / weak passwords
- Forgot my password / secret questions
- Old compromised credentials



2



### They hack you

- Unpatched security bugs
- Unpatched / misconfigured websites
- Drive-by downloads / malware



3



### They trick you

- Phishing / spear phishing
- Brand theft / mail campaigns
- Social engineering

## How do they get it?



# 1



### They get your password

- Brute force (now often Password Spray)
- Default / weak passwords
- Forgot my password / secret questions
- Old compromised credentials

';--have i been pwned?

Check if you have an account that has been compromised in a data breach

email address

pwned?

<http://haveibeenpwned.com>

#### Login Failed



That password was incorrect. You have failed to login 13,765,127 times. Please try again.

Cancel

Try Again



Username : admin  
Password : admin

## How do they get it?



# 1

### They get your password

- Brute force (now often Password Spray)
- Default / weak passwords
- Forgot my password / secret questions
- Old compromised credentials





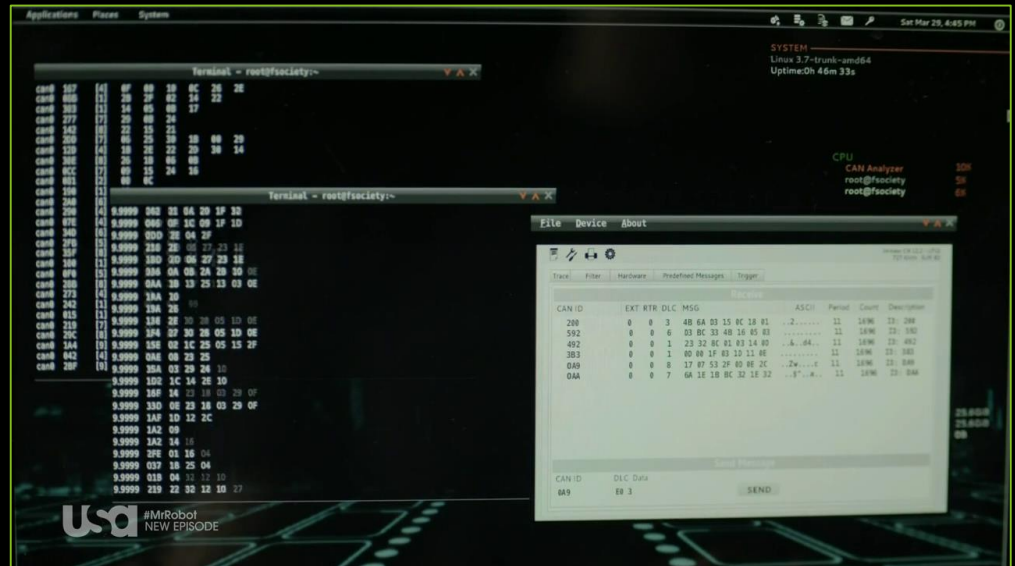
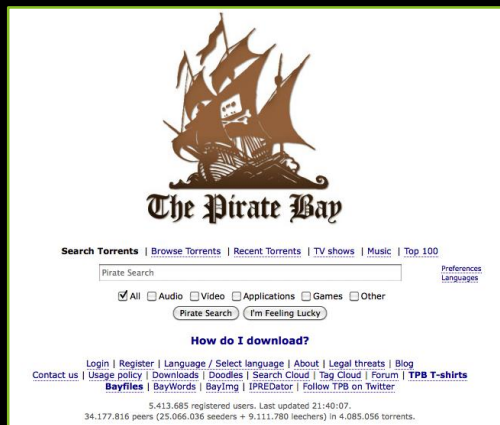
## How do they get it?



# 2

## They hack you

- Unpatched security bugs
- Unpatched / misconfigured websites
- Drive-by downloads / malware



## Download and install updates for your computer

173 important updates are available

4 optional updates are available

173 important updates selected, 483.3 MB

Install updates

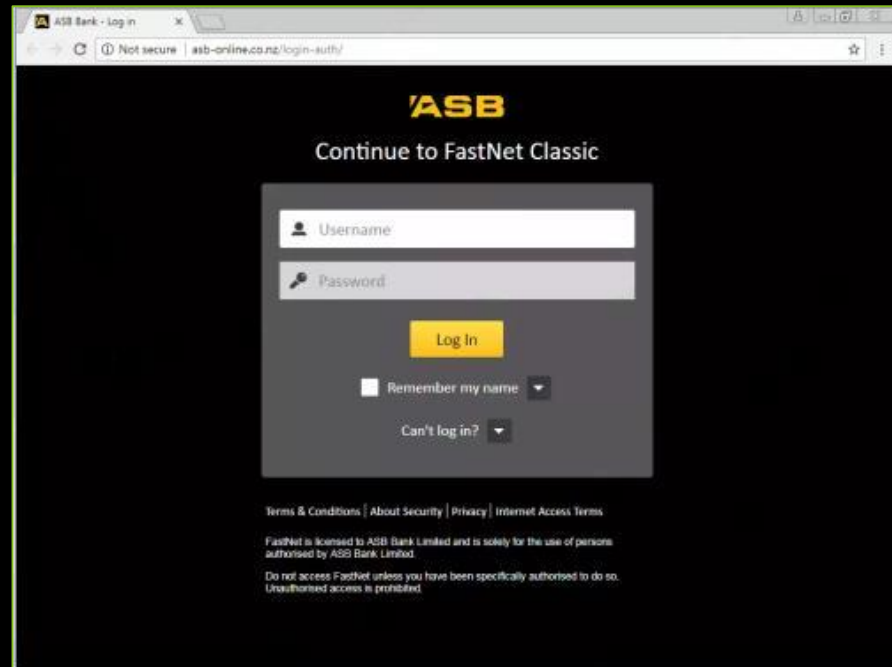
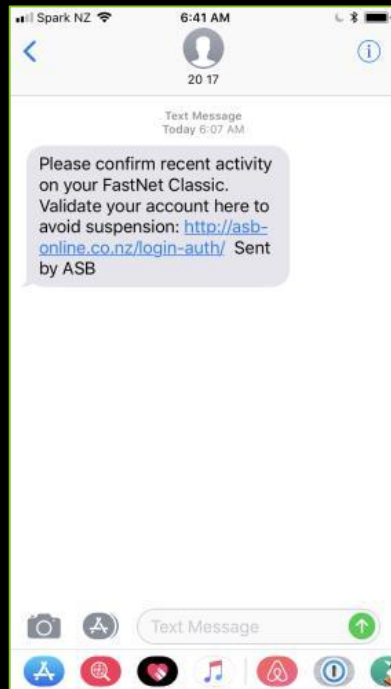
## How do they get it?



# 3

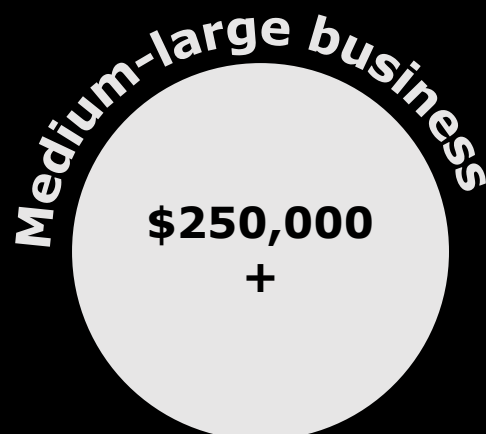
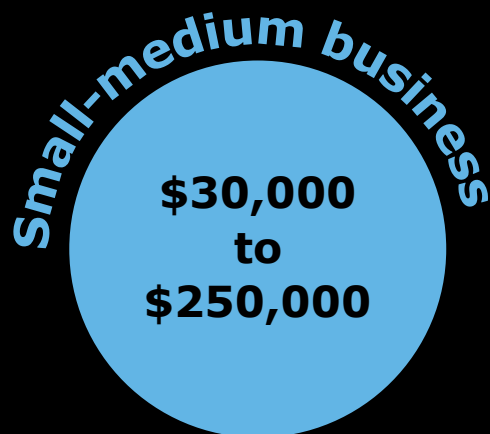
### They trick you

- Spear phishing
- Brand theft / mail campaigns
- Social engineering

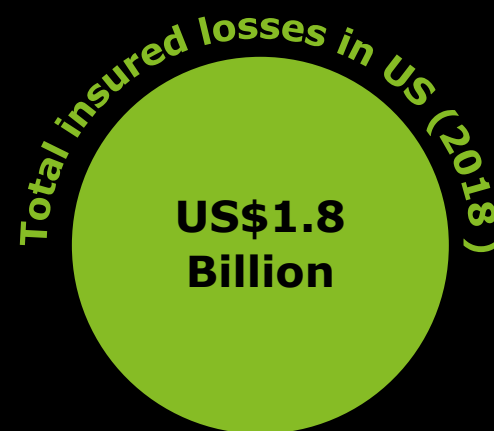
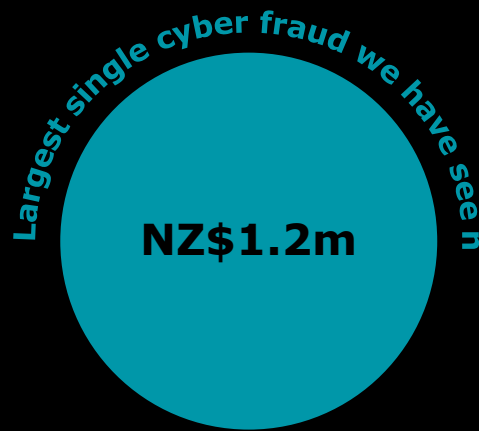


## Impact and costs of cyber crime

The direct cost of responding to a typical cyber breach:



Key statistics (based on CERT NZ reporting and our experience):



# Deloitte.

## How has our experience changed the way we think?

01

**Prevention is not enough.**

02

**Think like an attacker.**

03

**Monitoring and resilience are key.**



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