

Raising the Effectiveness of Your Threat Management Program

Agenda



Threat Management Today

How Threat Intel helps

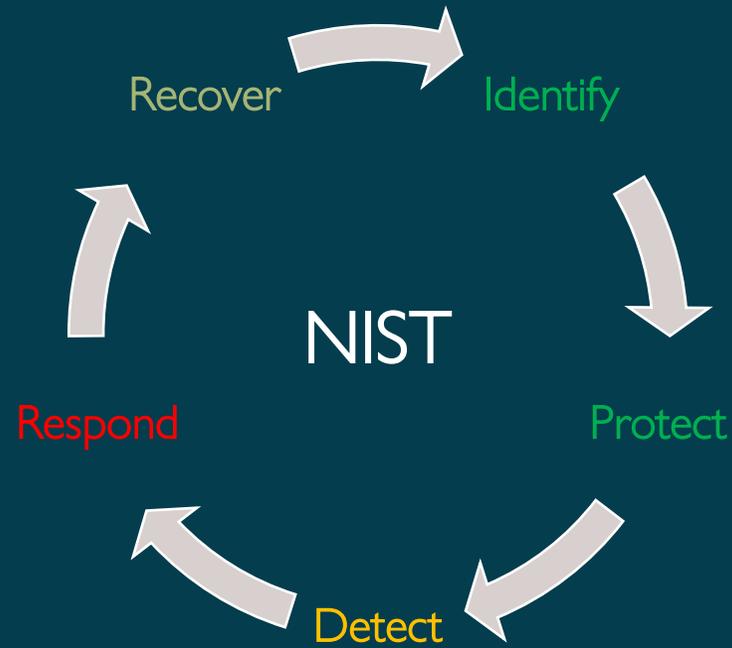
Potential Solution

What it looks like

Why your organisation may not be ready

Threat Management Today

Core: **Prevent** cyberattacks, **detect** cyberthreats and **respond** to security incidents.



Threat Intel helps

Core: Collect, process, analyse data to understand a **threat actor**'s motives, targets, and attack behaviours.

	Prime Enablers	Order	Aim	Target Points	Material Impact
APT's	Funding	Organised	High-impact damage	Valuable Assets (constants)	<ul style="list-style-type: none">• Finances• Business Operations• Legal Consequences• Customer Trust
Threat Intel knows	Abundant resources for high-impact damage; concurrent ops.	Relatively predictable	Potential impact likely severe	Risk-based defence	Cost of impact

What does this look like?



Threat Operations Manager,
HerkshireWay & Co.

Russian APT claim responsibility for hack at Hyugo Contracting Services...

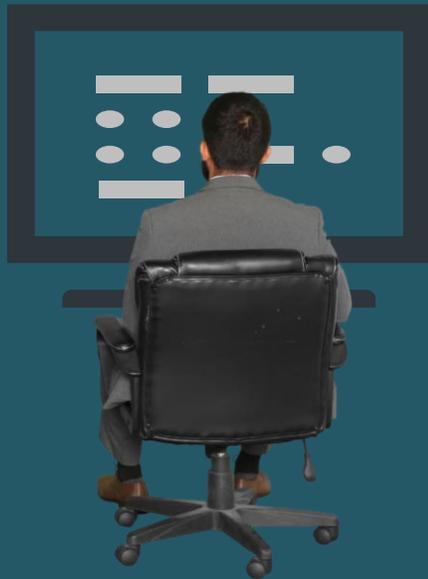
...novel tactics attributed to APT 90210...

Email servers at Harland Hospital ransomed in a sophisticated cyber-attack. Activity attributed to APT 9358.

...Another retail company hit in another sophisticated DDoS attack...

“These APT groups are unrelenting.”





Dan, how secure are we? Our competitors are in the news for cyber-attacks!



*We are secure.
Detections are in line with best practices.
We have coverage for 95% of APT tactics based on MITRE's ATT&CK Framework.
I am confident we will be fine.*

Three months later...

CISO calls...

HerkshireWay & Co. website
down due to ransomware
attack.



Impossible!!!
How could this have happened?!



It must be
that inter...

...

...



Why are we in the news, Dan?



Hello Kate!
It was the ...janitor...

What could have gone wrong?
They used best practices.

Threat Intel helps, but...

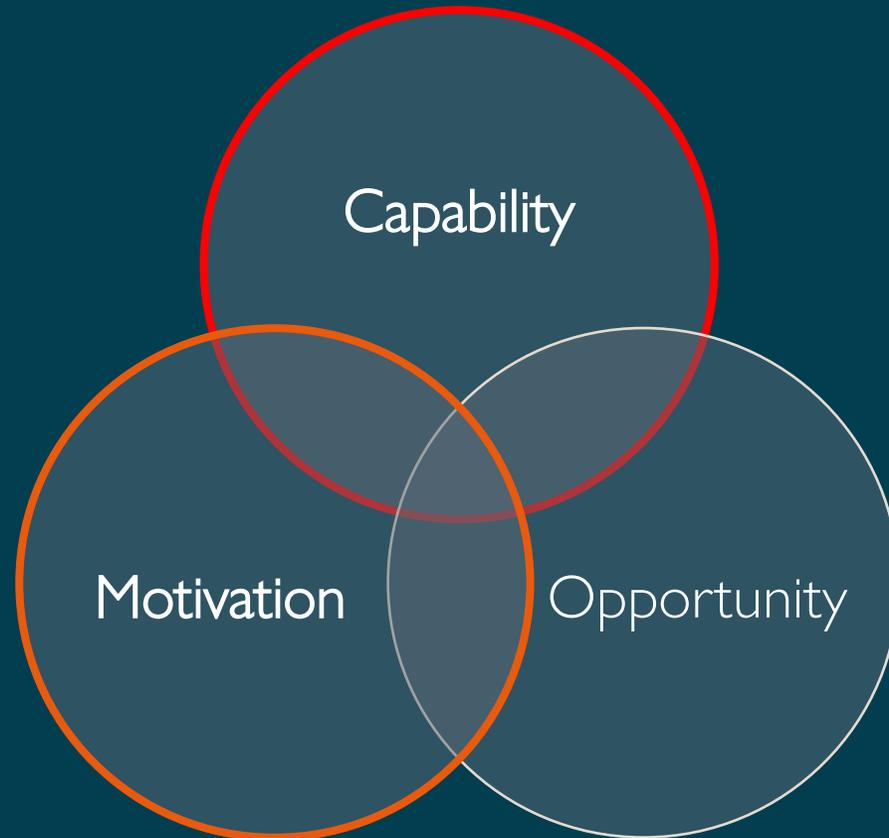
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- APTs are not the only threat actors.
- The company's security does not depend on TM alone.

Threat Intel helps, but...

Capability and Motivation are variables. Their combined product is not always low for non-APT's.



Threat Intel helps, but...

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Opportunists/ Script Kiddies/ Hacktivists	Motivation	Less Organised / Random	Any Damage	Any entry	<ul style="list-style-type: none"> • Finances • Business Operations • Legal Consequences • Customer Trust
Threat Intel knows	Limited resources capacity for high-impact damage	Unpredictable	Potential impact unpredictable.	Harden perimeter	Cost of impact

How do we secure against opportunists/Non-APTs?



Why Business Threat Intelligence (BTI)?



- Informs on **specific threat realities** of the business
- **Communicates team impact** beyond speed
- Provides business leaders with awareness and visibility to **prioritise security projects and investments**
- Helps detection teams **prioritise detections for business soft spots**
- Drives **security for less likely APT targets** (SMEs)
- Drives informed **security decision-making**

BTI & impact on overall security program



Security Awareness



Security Policy



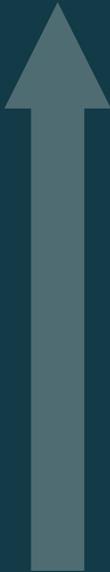
Risk Management



Threat Management



CISO



Effectiveness
Efficiency

How to get it

Awareness of Business
threat landscape

+

Business Context

=

Business Threat
Intelligence

SOURCE

- Incident and near-miss trends over-time (true and false positives)

- Threat hunting

- Observing intelligence over-time

AIM

- Address systemic root causes where applicable

- Reveals nuances on business operations

- Validate and keep awareness current

What does output look like?



What a BTI report may contain



- Executive Summary
- Threats
- Recommendations
- Conclusion

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Security Posture

- Business secured
- Resilience Poor

Efficiency

- Extinguished Threats
- Repeated incidents

Mindset

- Special Club (Heroes)
- Sole Protector Team

Adoptability for SMEs

- Quick fix
- Can be outsourced

Cross-team integrations

Difficulty integrating cyber into business operations

Cooperation from C-Suite

- Difficulty gaining C-Suite cooperation beyond emergencies

Threat Management Today + BTI

Security Posture

- *Business secured*
- *Resilience Poor*
- *Business secured*
- *Improved Resilience*

Mindset

- *Special Club (Heroes)*
- *Sole Protector Team*
- *Security everyone's responsibility*
- *Defender and Guide/Advisor*

Cooperation from C-Suite

- *Difficulty gaining C-Suite cooperation beyond emergencies*
- *Easier gaining C-Suite cooperation*

Efficiency

- *Extinguished Threats*
- *Repeated incidents*
- *Identify root causes*
- *Reduced incidents*

Cross-team integrations

- *Difficulty integrating cyber into business operations*
- *Cyber integrates easier into business operations*

Adoptability for SMEs

- *Quick fix*
- *Can be outsourced*
- *Not business priority*
- *Resource investment*

Best Solution:

Contracting service includes BTI in service offering.

Barriers to Adoption

- No capability for log collection
- Minimal Workforce
- Low on business priorities

Conclusion

- Managing threats → Securing businesses
- Be curious about the business being secured
- Security is a business priority – help the business by education
- Document findings for reference
- Inform the business on their state of security to drive improvement.

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Your Threat Management
Program