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Operational Cybersecurity

A Candid Conversation

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NAV CANADA

Our Mission

To ensure no cybersecurity event results in a significant operational safety incident!

But...

We are also concerned about:

- Reputational Harm
- Service Disruption
- Private and Sensitive Information
- Resiliency and Recovery

Identify
- Identify any asset vulnerabilities, internal and external threats and current risk response mitigation strategies
- Begin to establish an updated risk management strategy, including identifying risk tolerance

Protect
- Implement identity management and access control across the organization
- Establish data security protection consistent with risk strategy

Detect
- Define the appropriate activities to identify the occurrence of a cybersecurity incident in a timely manner
- Implement continuous and effective monitoring capabilities

Respond
- Develop response planning processes to be executed during and after an incident
- Analyze incidences and supporting recovery activities, such as forensic analysis and impact reporting
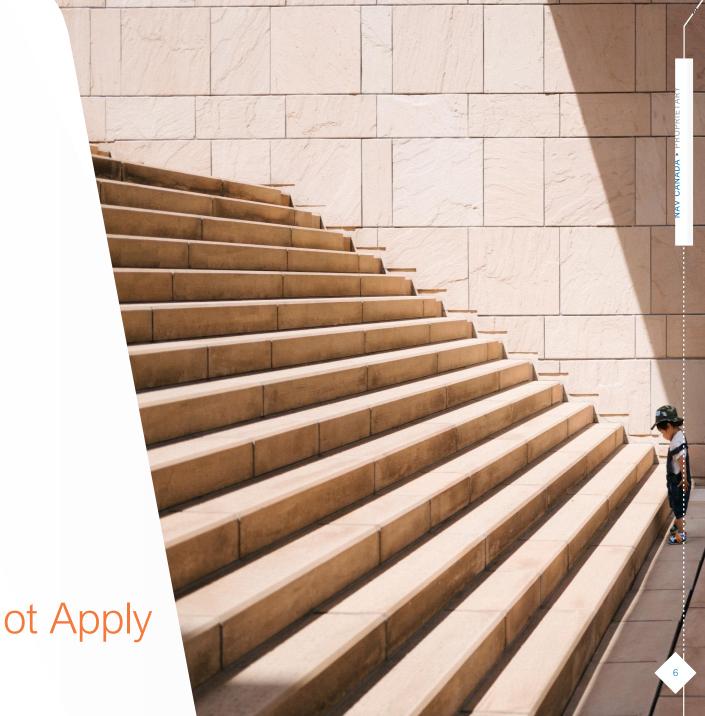
Recover
- Ensure recovery planning processes are implemented correctly company-wide
- Coordinate internal and external communications during and after cybersecurity incidents

START

Three Key Concepts

1. Business and Operational Convergence
2. Risk Based Approach
3. Cyber Is A Team Sport

Challenges

1. Original Intent
2. Lifespan
3. Inter-connectivity
4. Complexity
5. Asset Management
6. Authentication
7. Monitoring
8. Time To Mitigation
9. Traditional Controls May Not Apply

Threats

What We See

Top Four:

- Ransomware
- Denial Of Service
- Malware
- Human Error

Strategic Focus

- Privileged Password Management
- Access and Authentication
- Patch Management
- Next Gen Perimeter Security

- DevLan 2.0
- Endpoint Detection and Response
- Secure Remote Management
- Improved Monitoring and Detection
- Awareness and Training

Program

- Penetration Testing
- Vulnerability Assessments
- Awareness / Training
- Incident Response
- Risk Assessments
- Security Operations
- Threat Intelligence
- Policy and Standards
- External Collaboration

THANK YOU IFATSEA !

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