



# Cyber Risk Management workshop



**PaCSON**

PACIFIC CYBER SECURITY OPERATIONAL NETWORK

**Helen Teixeira**, Director | Unit 42 - JAPAC

Intelligence Driven. Response Ready

# Agenda

- 1. Introductions - me & Unit 42**
- 2. What is Cyber Risk Management?**
  - i. Process, terms & concepts
  - ii. Cyber risk analysis better practices
  - iii. Risk reporting
- 3. Why is this important?**
- 4. Current challenges**
- 5. Practical steps to effectively manage Cyber Risk**
- 6. Key takeaways**



# 1. Introductions



# Dr Helen Teixeira

- **Consulting Director, Unit 42 JAPAC**
- Previously:
  - **Deep technical knowledge** combined with cyber risk management expertise
  - Former **Managing Director** in Big 4 Consulting
  - International experience and insights having operated across Brazil and JAPAC

- Co-Chair **FAIR Institute** Sydney Chapter since 2018, promoting cyber risk quantification for effective decision-making.
- Performed numerous independent cyber risk assessments and cyber program reviews across FSI, retail, education and the telecommunications sectors, providing defensible and prioritised risk remediation strategies for the most effective use of limited resources (people, time and budgets) and optimised return on security investments.
- Holds a **PhD in Physics**, and industry qualifications such as Certified Information Security Systems Professional (“**CISSP**”), GIAC Certified Web Application Penetration Tester (“**GWAPT**”), Open FAIR Foundation Certified, ISO 27001 Lead Auditor, former PCI DSS and Payment Application (PA DSS) Qualified Security Assessor.

# UNIT 42 THREAT INTELLIGENCE & RESEARCH



## 200+ Threat Researchers



Reverse engineering



10+ years of historical malware analysis growing by **30M** samples a day



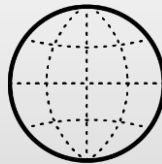
Threat modeling



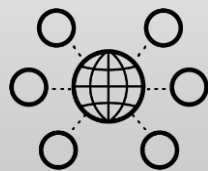
Multiple awards for vulnerability research



## Depth and Breadth of Telemetry



**85k+** customers



**500BN** events per day from endpoint, network, cloud



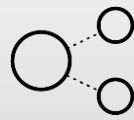
**1k+** Incident response engagements per year



Managed Detection & Response & Threat Hunting



## Partnerships and Open Source Data



Open source gathering



**75+** third party feeds



Cyber Threat Alliance, **6M** observables/month



Law enforcement, government, military partnerships



# 3. Why is this important?

# Cyber related impacts

## Confidentiality

Preserving authorized restriction on information access and disclosure, including means for protecting personal privacy and proprietary information

## Availability

Ensuring timely and reliable access and use of information

## Integrity

Guarding against improper information modification or destruction, and includes ensuring information non repudiation and authenticity

## Safety

Expectation that a system does not, under defined conditions, lead to a state in which human life, health, property, or the environment is endangered

- **Privacy regulations**

- **EU-GDPR:** Max 20,000,000 Euros or 4% annual turnover (whichever greater)
- **UK-GDPR:** Max £17,500,000 or 4% annual turnover (whichever greater)
- **AU Privacy Act 2018**
  - Notifiable Data Breach since 2018
- **NZ Privacy Act 2020**

# THE THREAT LANDSCAPE IS INTENSIFYING



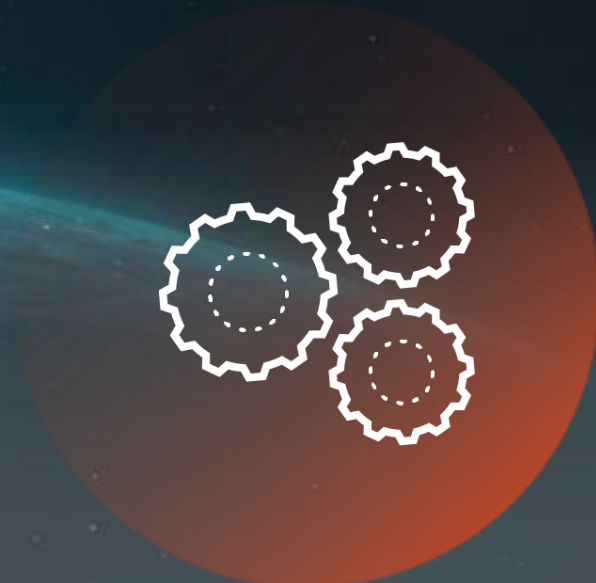
## Speed

**45%** of the time, compromise-to-exfiltration happened in less than a day



## Scale

**39%** of IR cases, internet facing vulnerabilities were the initial access point



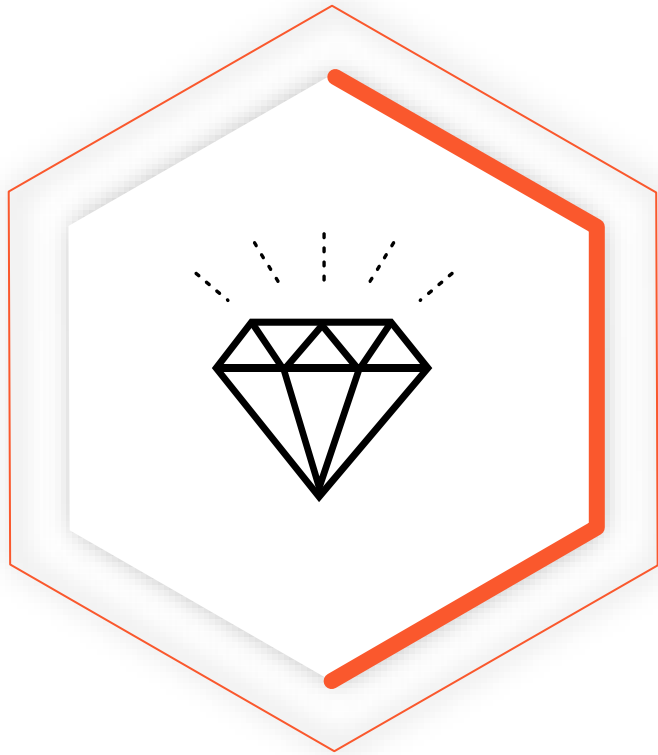
## Sophistication

**13** Days was the medium dwell time in 2023, decreased by half since 2021



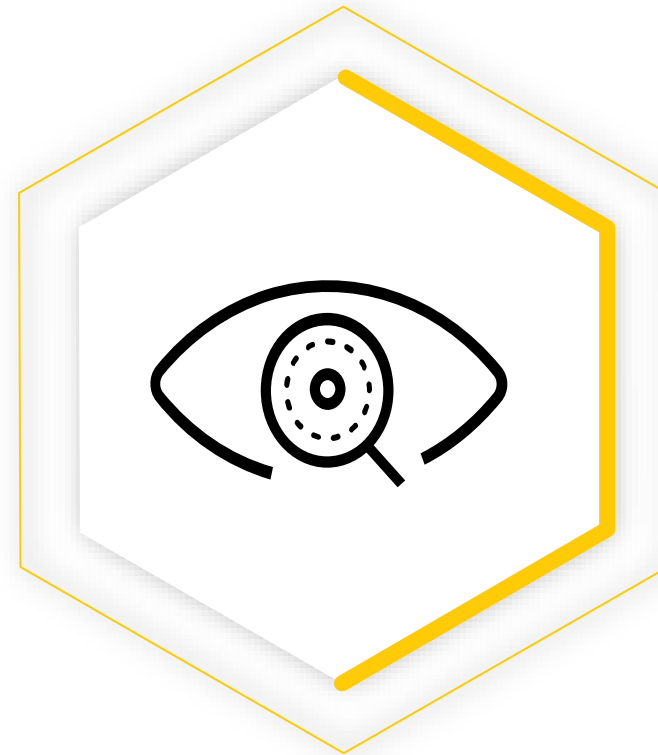
## 6. Key takeaways

# Key takeaways



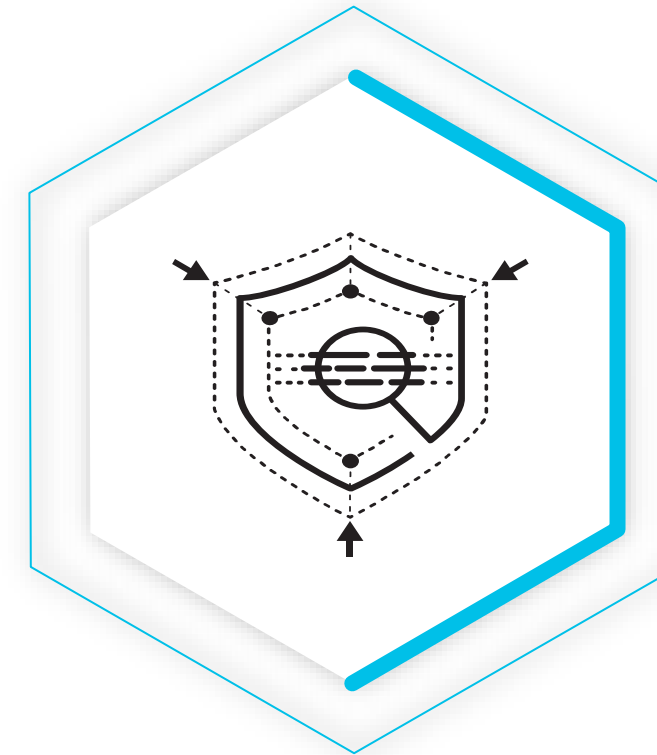
## Identify Crown Jewels

Resources (people, time & budgets) will always be limited  
Prioritise Crown Jewel assets initially



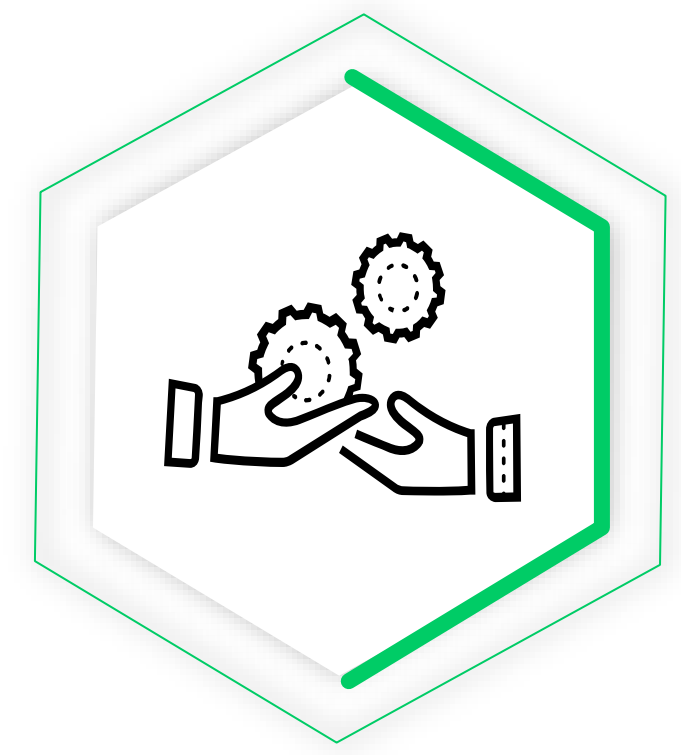
## Understand Attack Surface

You can't protect what you don't know  
Continuous view of assets (external and internal) is key



## Prepare & test for probable threats

Prepare for when, not if ..  
Use data driven approaches and simulations to prepare & improve



## Leverage partnerships

Know your key third parties  
Leverage trusted partners for information sharing and support





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**Thank you**