



RiskNZ gratefully acknowledges the support of our sponsors:



We also thank our hosts for this event:
KPMG, Navigatus, Christchurch City Council, Top Energy, WEL
Networks and Trustpower



WHY A RISK PRACTITIONER MUSTN'T IGNORE CYBER WARFARE?

Chris Ward MSc (CISM) CISSP MBCS

Director Cyber Operations



CYBER - A THE NEW KID N THE BLOCK

- First Used in 1966 – Doctor Who
- Forensics
- Cyber Forensics
- Investigation
- Cyber Investigation
- Insurance
- Cyber Insurance
- Warfare
- Cyber Warfare

SOME TYPES OF CYBER

- Computer Network Defence
- Computer Network Exploitation
- Computer Network Attack
- Defensive Cyber Operations
- Offensive Cyber Operations

All are aspects of Cyber Warfare

WHAT DOES IT AFFECT?

- Critical National Infrastructure
 - Water
 - Power etc
- Government departments
- Financial Sector
- Commercial sector
 - Intelligence on sales, products, IP
 - Disruption to the business
 - Insider Threat



WHERE DO THE CYBER WARRIORS TRAIN?

- Military establishments
- Government Agencies
- Commercial
- Self Taught



WHERE DO THEY TEST CAPABILITY?

- Cyber storm
- Zenith Global
- Cyber Flag
- Hacking Seminars and events



SOME ASPECTS OF CYBER

- Intrusion Detection
- Forensics
 - Malware Analysis
 - Reverse engineering
- All Source Intelligence - Low Attribution
- Counter Intelligence
- Research and Development – Tools and Code

WHERE DO CYBER WARRIORS WORK?



WHAT CAN CYBER WARRIORS DO?

Pentagon unleashes Fort Meade cyber warriors on Islamic State



The [Defense Department](#) has called on military hackers at [Fort Meade](#) to disrupt the operations of the self-declared [Islamic State](#), a move that adds cyberweapons to the bombs and missiles the United States has been using to batter the terror group.

Defense Secretary [Ashton B. Carter](#) described the outlines of the hacking campaign Monday.

MARKET EXPANSION ADDS TO CYBERSECURITY TALENT SHORTAGE



Cybersecurity job openings: 1 million in 2016; 1.5 million by 2019.



COMBAT - CSIRT INITIATIVE IN NZ

- A great Initiative
- A New Capability
- New employment
- Cyber Training
- New Skills
- A strong Governance board



Why a Risk Practitioner mustn't ignore Cyber Warfare?

- It affects everyone
- It's happening here in NZ
- It can stop a business in it's tracks
- Must be realised at the 'C' Level



Chris@CyberToa.com