Orange Cyberdefense

Ahead of the storm: Cyberwarfare

Antwerp, 26 October 2022

Jort Kollerie Manager Security Architecture Tamara Hendriksen

Information Security Officer

- Introduction
- What Is Cyberwarfare?
- Types Of Cyberwarfare
- The Battlefield
- Nations, Attacks & Objectives
- The Challenge Of Data
- Future
- Conclusion

Introduction Ahead of the storm: Cyberwarfare

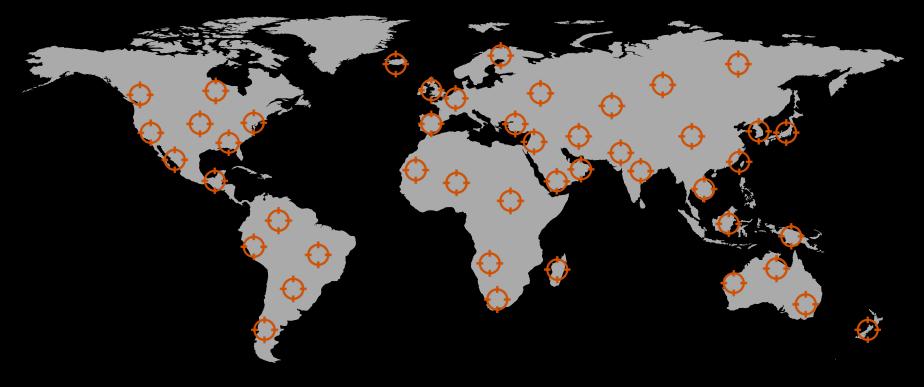




Tamara Hendriksen Information Security Officer

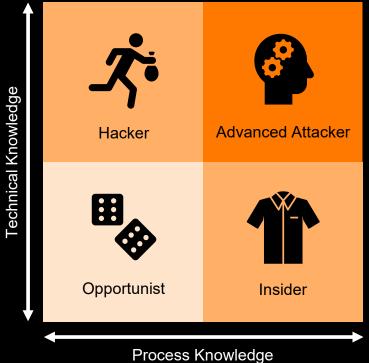
Jort Kollerie Manager Security Architecture

Attacks Are Boundless



"You can't celend your business if you don't know what threats are coming your way..."

Who To Be Afraid Of?



What Is Cyberwarfare?

Ahead of the storm: Cyberwarfare

cyberwarfare

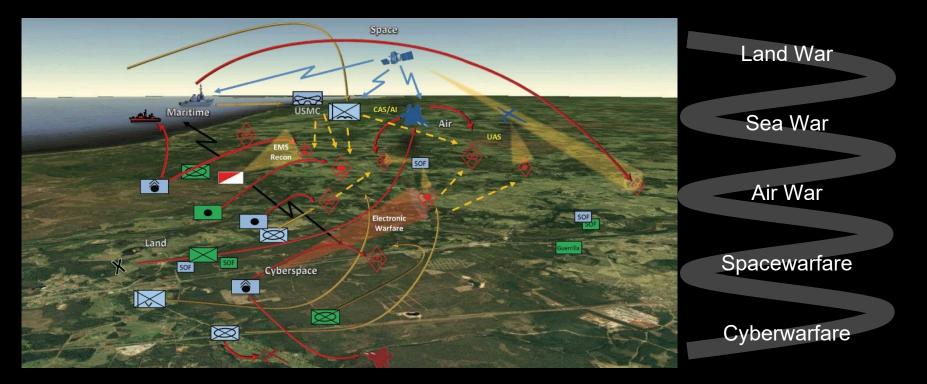
/ sai.ba'wo:r.fer/

the use of cyber attacks against a nation state, causing comparable harm to actual warfare and/or disrupting vital computer systems.

Types Of Cyberwarfare



The Multi-Domain Battlefield



Nations, Attacks & Objectives



North-Korea: Attacks & Objectives





a Decrypt0r 2.0		×
		English
1	What Happened to My Computer? Your important files are encrypted. Many of your documents, photos, videos, datal accessible because they have been encrypted. recover your files, but do not waste your time. our decryption service.	ases and other files are no longer faybe you are busy looking for a way to
ayment will be raised on	Can I Recover My Files?	
5/15/2017 16:32:52	Sure. We guarantee that you can recover all yo not so enough time.	ur files safely and easily. But you have
Time Left 2:23:59:49	You can decrypt some of your files for free. Try now by clicking <decrypt>. But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't pay in 7 days, you won't be able to recover your files forever.</decrypt>	
our files will be lost on	We will have free events for users who are so p	oor that they couldn't pay in 6 months.
5/19/2017 16:32:52	How Do I Pay? Payment is accepted in Bitcoin only. For more	information, click <about bitcoin="">.</about>
Time Left 5:23:59:49	Please check the current price of Bitcoin and buy some bitcoins. For more information, click <flow bitcoins.<br="" buy="" to="">And send the correct amount to the address specified in this window. After your payment, click <check payment="">. Best time to check: 9:00am <11:00am</check></flow>	
	Send \$300 worth of b	itcoin to this address:
	B bitcoin ACCEPTED HERE 12t9YDPgwueZ9NyN	lgw519p7AA8isjr6SMw
ntact Us	Check Payment	Decrypt





Iran: Attacks & Objectives



China: Attacks & Objectives



Russia: Attacks & Objectives

Ahead of the storm: Cyberwarfare



CYBER SPYING IN 2016 RACE

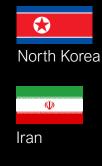
OBAMA BLAMES PUTIN FOR ELECTION HACK Scott Shane National Security Reporter, New York Times

Nations, Attacks & Objectives

RD









China



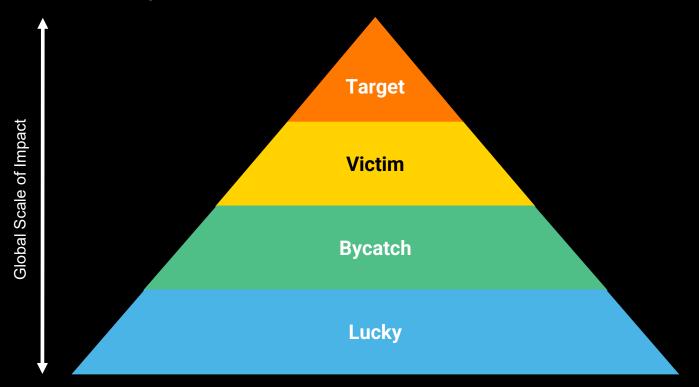
Russia

USA: Attacks & Objectives



The Pyramid of Collateral Damage

Ahead of the storm: Cyberwarfare



Confidential

The Challenge Of Data



Future Ahead of the storm: Cyberwarfare

Computers are scaling, they get faster and faster and will permeate all aspects of our lives. New techniques will dramatically increase the impact of cyberwarfare on a global scale since there are no obstacles in adopting it...

The evolution of technology will be followed by cyberwarfare...

Confidential

Conclusion

- Attacks are boundless since IT is distributed globally and we live in a connected world
- IT/OT convergence will even increase attacks in the coming years and will affect any
 organization in any business or segment in any country in the world
- Geopolitics will push and divide countries towards an even more urgent digital resilience phase
- Cyberwarfare has no limits, and the global origin of cyber-attacks requires international awareness and knowledge gathering of emerging threats from across the world
- Simply said, you can't defend your business if you don't know what threats are coming your way

Conclusion Ahead of the storm: Cyberwarfare

Bytes not bullets...

Orange Cyberdefense

Build a safer digital society...

Tamara Hendriksen

Information Security Officer

Jort Kollerie

Manager Security Architecture