



Threat Intelligence

What Makes It Smart

Presented by:
C. Thomas "Space Rogue"
Threat Intelligence Manager

Who Am I

- C. Thomas aka "Space Rogue"
 - Member of L0pht Heavy Industries
 - Creator of the Whacked Mac Archives
 - Testified to Congress on "Weak Computer Security in Government"
 - Defcon, SOURCE, HOPE – MTV, ABC News, CNN
 - Editor in Chief of The Hacker News Network
 - Threat Intelligence Manager for Trustwave SpiderLabs

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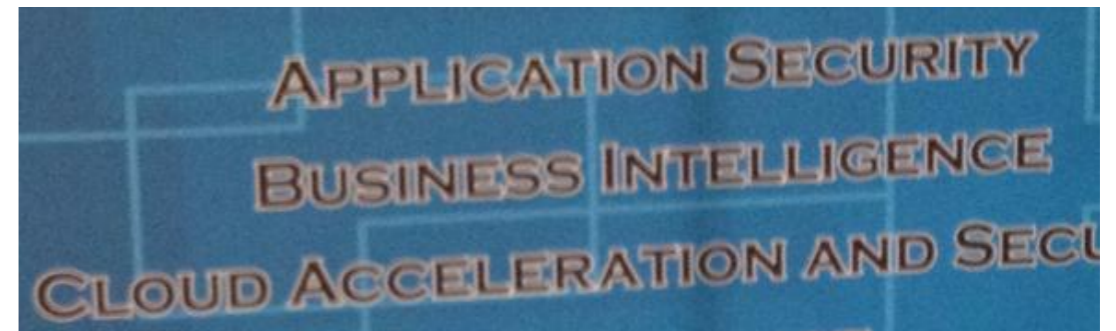
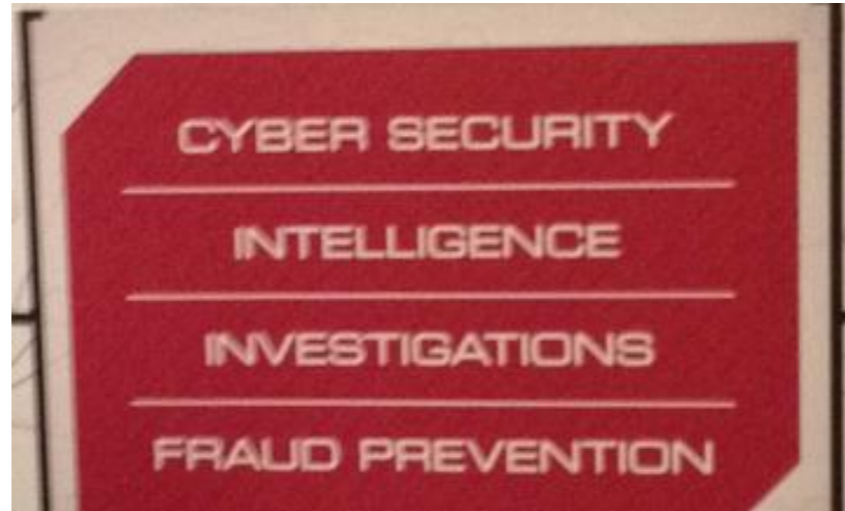
What is Threat Intelligence?

threat [thret] *noun* 1. a declaration of an intention or determination to inflict punishment, injury, etc., in retaliation for, or conditionally upon, some action or course; menace 2. *an indication or warning of probable trouble* 3. a person or thing that threatens.

intelligence [in-tel-li-juhns] *noun* 1. capacity for learning, reasoning, understanding, and similar forms of mental activity; aptitude in grasping truths, relationships, facts, meanings, etc. 2. manifestation of a high mental capacity 3. the faculty of understanding. 4. *knowledge of an event, circumstance, etc., received or imparted; news; information.* 5. *the gathering or distribution of information, especially secret information.*

What is Threat Intelligence?

- **Market Definitions:**



What is Threat Intelligence?

- Types of InfoSec Threat Intelligence
 - New Malware Attacks
 - Phishing exploits in the wild
 - Known Vulnerabilities
 - Who are the Bad Guys (and their motivations)
 - New Patches
 - Industry specific attacks

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- Types of InfoSec Threat Intelligence
 - New Malware Attacks
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 - Who are the Bad Guys (and their motivations)
 - New Patches
 - Industry specific attacks
- More than just a SIEM or SOC service can provide

What is Threat Intelligence?

- **Market Definitions:**
 - SIEM (Security Information and Event Management)
 - Automated Log Analyses
 - Actively attacking your network right now
 - Lot of false positives
 - Many are Malware Centric
 - Signature based
 - Alerts often have no context or *analysis*

Intelligence Gathering

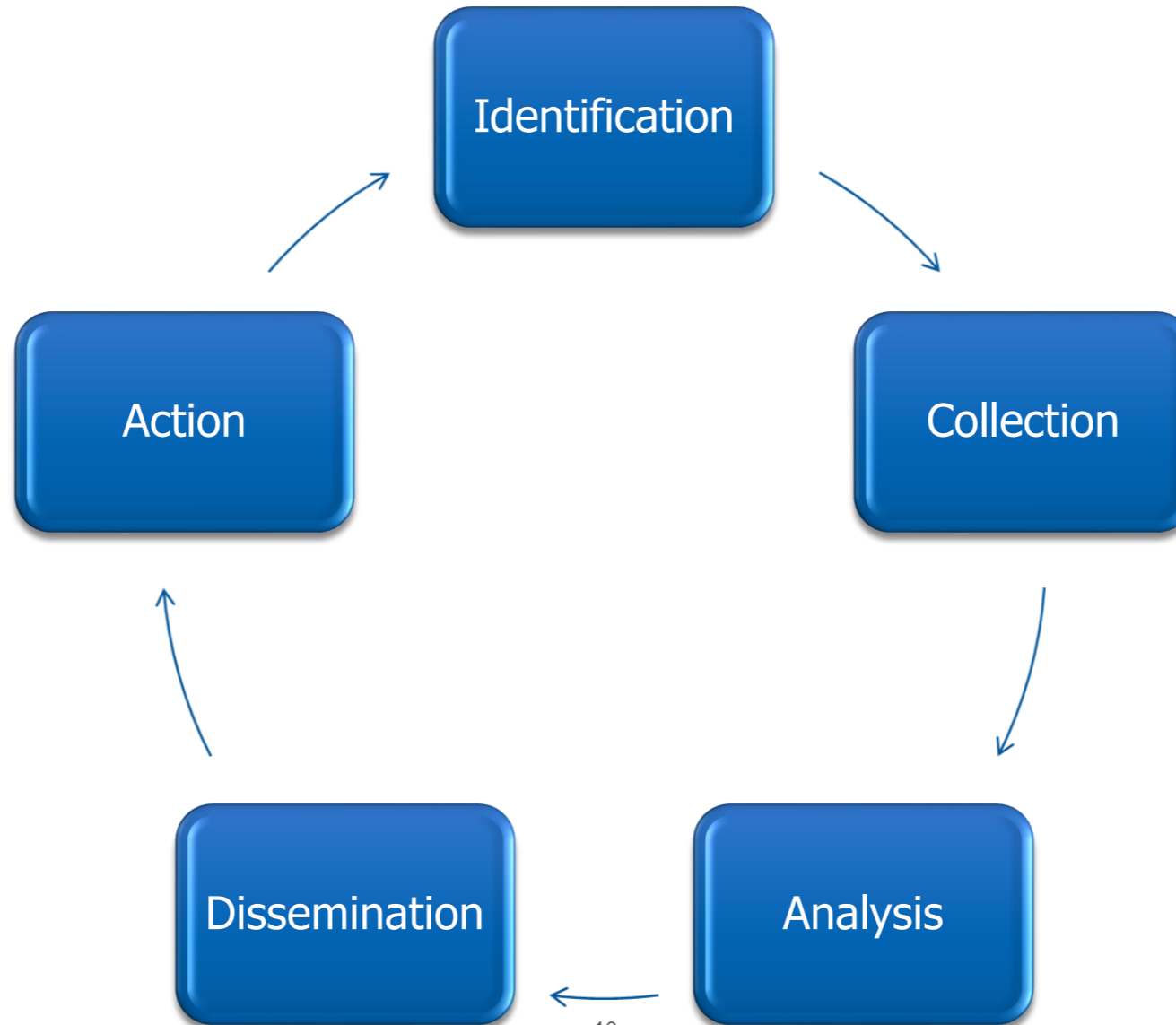
Now the reason the enlightened prince and the wise general conquer the enemy whenever they move and their achievements surpass those of ordinary men is foreknowledge. —Sun Tzu, *The Art of War*

“I was almost as well advised of the strength of the hostile army in my front as its commander.” – General Pierre Gustave Toutant Beauregard, CSA – Battle of Bull Run

Intelligence Gathering

- Basics Still Apply
 - Identification
 - Identify topics – What information is wanted
 - Collection
 - Acquisition of raw information
 - Analysis
 - Organization – filtering – formatting – correlation – reducing to facts
 - Distribution
 - Email – dashboard – white paper
 - Action

Intelligence Cycle



Threat Intelligence Sources

- Open Source Intelligence (OSINT)
 - Social Networking (Facebook, Twitter, etc...)
 - Traditional Media (NY Times, CNN, Al Jazeera, etc...)
 - Underground (IRC, Forums, etc...)
 - Mailing Lists (ISN, Full Disclosure, BugTraq, etc...)

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- Private
 - Mailing Lists (Dragon Newsbytes, DailyDave, FiRST)
 - Corp and Edu Research Labs
 - Mil and Gov

Threat Intelligence Sources

- Can not rely on traditional media alone
 - Slow / Rush to Publish
 - Large amounts of content (impossible to keep up)
 - Trying to be Social Media = Fail
 - Inaccurate – Failure to Verify
 - Mitnick broke into NORAD
 - Brazil Blackout was a cyber attack
 - IL Water Plant pump failure
 - NW Railroad 'slowdown'
 - No Analysis

Threat Intelligence Providers

- Are they reputable?
 - Bias?
 - Influenced? (Advertising?)
 - Easily trolled?
 - Parrots?
- Are they regurgitating Google searches?
 - Sexy headlines and buzzwords
- “algorithmically aggregated news” — Rob Malda, Editor Washington Post (Slashdot)

Threat Intelligence Providers

- Are feeds too targeted (not enough info)
- Are feeds too broad (too much info)(duplicates)
- Can you customize what you are paying for?

- Are you getting the right analysis?
 - Does it matter to me?
 - Is it sales babble? Or real news?
 - Do they have the Threat Level right? (Hype)
 - Crying wolf is bad.
 - Being wrong about a real threat is not fun, either.

Trustwave SpiderLabs Threat Intelligence

SpiderLabs – Threat Intelligence

- What do you get?
 - Targeted email feed
 - Dashboard/portal planned
 - Quarterly Reports
 - 4 Focus Areas (Mobile, Malware, Infrastructure, Cloud)
 - Access to SpiderLabs Team
 - Product Analysis, Custom Research, Advice

SpiderLabs – Threat Intelligence

- Feed
 - Targeted
 - 4 Focus Areas (Mobile, Malware, Infrastructure, Cloud, +)
 - Multiple sources
 - (Traditional Media, Mailing Lists, RSS Feeds, Twitter, Forums, IRC, Trustwave SOC, SpiderLabs Team)
 - Each item manually reviewed
 - Expert Analysis and Commentary
 - Dedicated Team – NOT Algorithmically Aggregated
 - No Hype

SpiderLabs – Threat Intelligence

- Quarterly Reports
 - 4 Focus Areas (Mobile, Malware, Infrastructure, Cloud)
 - Aggregates news items from the quarter
 - Identifies Trends
 - Unique Insight

SpiderLabs – Threat Intelligence

- Access to the SpiderLabs Team
 - Advice
 - Product Analysis
 - Custom Research
 - Trusted Advisor

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Overview

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