Data Security Solutions (DSS)

Tim Seppi – Dell Security Specialist

March 30, 2012 MEEC Conference

Why Security at Dell?

"Security has got to be part of what you do every single day. Across the entire spectrum, we are embedding security in everything that we do..."

- Michael Dell

/ABSOLUTE

airwatch





Cyber Security Best Practices: +95% of attacks at the endpoint

- 1. Cyber security awareness campaign
- 2. Vulnerabilities: Inventory and patch management:
- 3. Multi factor authentication
- 4. Protect data with encryption
- 5. Predict and prevent malware attacks
 - 5. An ounce of prevention is worth a pound of cure i.e. EDR





Why Your Antivirus Isn't Working Anymore.

Tim Seppi | Data Security Solutions Andreas Xenos | Engineer Symantec's senior vice president Brian Dye declared to the Wall Street Journal that antivirus "is dead.. May 2014

Trend Micro's CEO, Eva Chen, threw down the gauntlet to her competitors last week, proclaiming that hackers are ahead of the game and that the anti-virus industry "sucks" Jun 2008

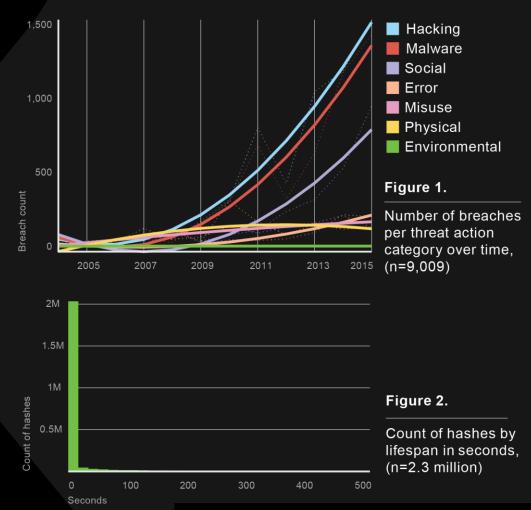




2016 VERIZON DBIR

- Malware is used in 90% of cyber incidents
- Adversaries create huge numbers of malware variants to avoid detection... or they design one just for you
- Unique malware is the norm rendering traditional AV totally useless.





Source: http://www.verizonenterprise.com/verizon-insights-lab/dbir/2016/

COMMON VECTORS OF ATTACK



EMAILED DOC WITH MALICIOUS MACRO FETCHES MALWARE





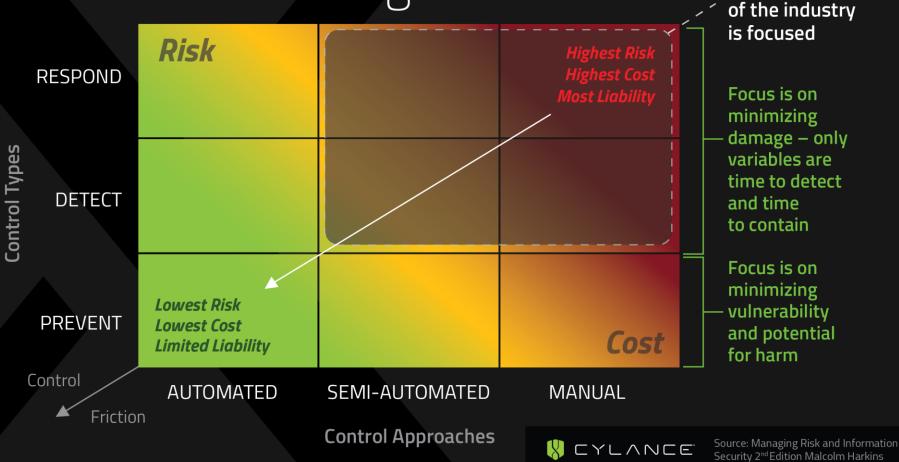
USER DOWNLOADS MALWARE



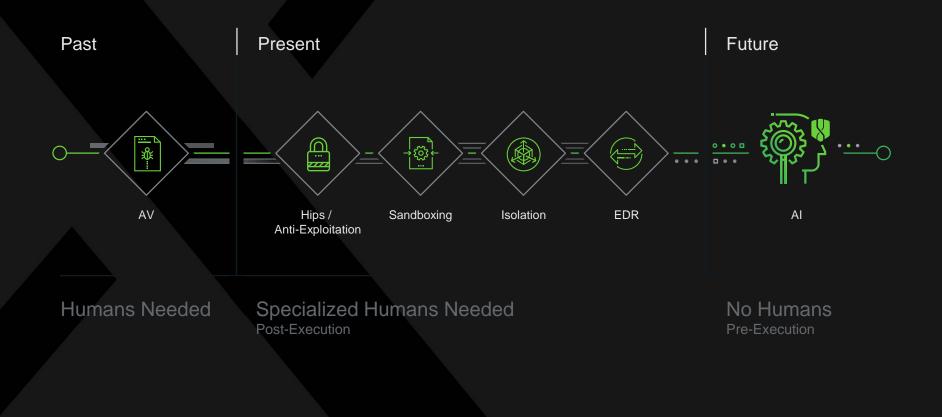
DOC WITH MALICIOUS POWERSHELL FETCHES CODE TO DUMP CREDENTIALS

Risk Mitigation Cost

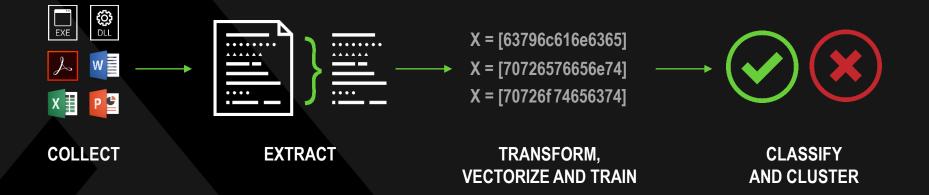
Where most



Past Present & Future of Security

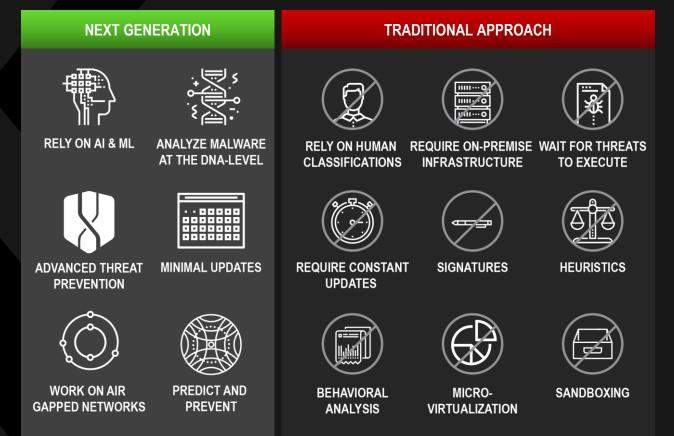


HOW IS IT DONE? ALGORITHMIC SCIENCE AND MACHINE LEARNING





Leverage the power of machines, <u>not</u> humans, to dissect malware's DNA. Artificial intelligence then determines if the code is safe to run.





QUESTIONS AND ANSWERS

