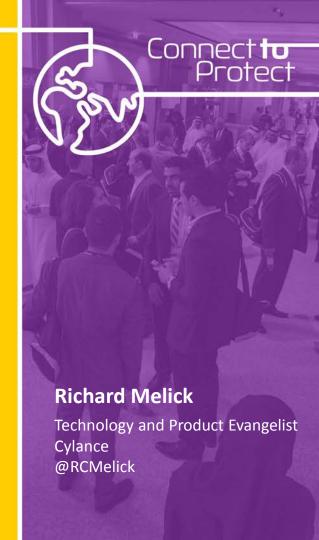
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SESSION ID: SPO1-W06B

Moving Beyond Legacy Endpoint Security Technology





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"If you need a machine and don't buy it, then you will ultimately find that you have paid for it and don't have it." - Henry Ford

The Current Endpoint Cannot Keep Up



- Legacy technology is reactive
- Reactive cannot scale with the amount and speed of today's malware
 - 99% of malware hashes are seen for only 58 seconds or less
 - In 93% of data breaches, compromise occurred in minutes or less
 - 362,000 new crypto-ransomware variants were spotted in 2015 (source: <u>Symantec</u>)





- Data breach news has become a part of daily life
- Yahoo, Cisco, FourSquare, Home Depot, United Airlines, OPM, Anthem Blue Shield, JPMorgan Chase
- 5,195 known data breaches since 2005
 - That's only counting US based data breaches



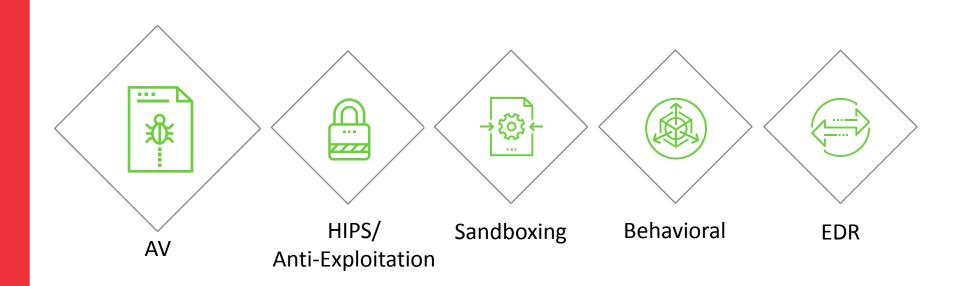


900,875,242 Breached Records



The Layered Approach







The Reactive Solution







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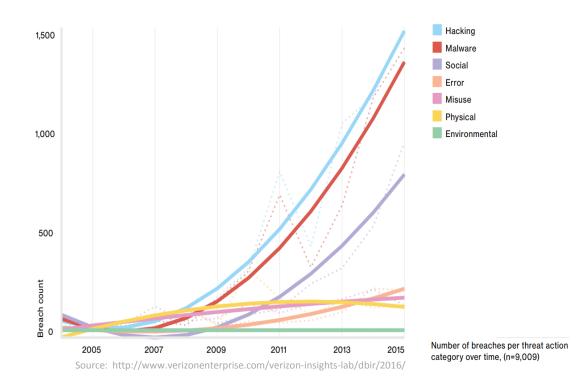


"Today's AV model makes everyone a sacrificial lamb." - Zheng Bu and Rob Rachwald, FireEye

2016 Verizon DBIR



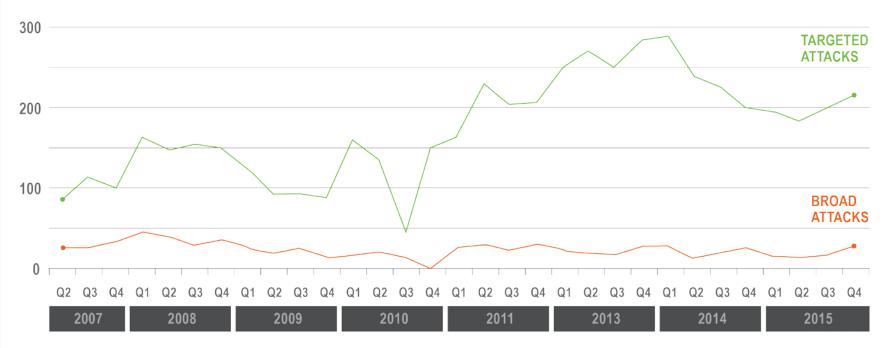
- Malware is used in 90% of cyber incidents
- Adversaries create huge numbers of malware variants to avoid detection... or they design one just for you
- Unique malware is the norm rendering traditional AV totally useless.





The Rise of Targeted Attacks





Source: CyberFactors, a subsidiary of CyberRisk Partners and CloudInsure.com http://www.heritage.org/research/reports/2014/10/cyber-attacks-on-us-companies-in-2014



The Standard Security Philosophy



- Customers expected to invest more time, money, and energy
- The security results are staying the same
 - 370,000 pieces of malware recorded daily (AV-Test)
 - 5,195 known data breaches since 2005
 - 1.7 data breaches PER day
 - These are all the known and reported attacks
- Customers deserve a different approach to security



The Cost of a Breach



- Cyber Crime costs jump 19% in 2016
- Unmitigated attack is \$40,000 per hour for businesses
- Average annual losses to companies worldwide now exceed \$7.7 million
- Some companies studied lost up to \$65 million

 $Source: Ponemon\ Institute-http://www8.hp.com/us/en/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/ponemon-cyber-security-report/software-solutions/software-s$



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"The traditional signature-based approaches to endpoint security are dead..." – David Duncan, Webroot

AI & Machine Learning Goes Mainstream



Prediction Using Past Data

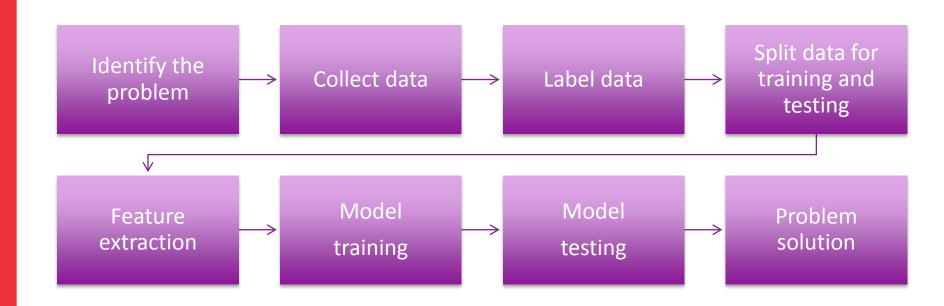
- Self-driving cars
- Personalized recommendations for customers
- Improving medical diagnostics
- Predicting insurance premiums
- It is in our hands





Building a Machine Learning Model







Building a Machine Learning Model

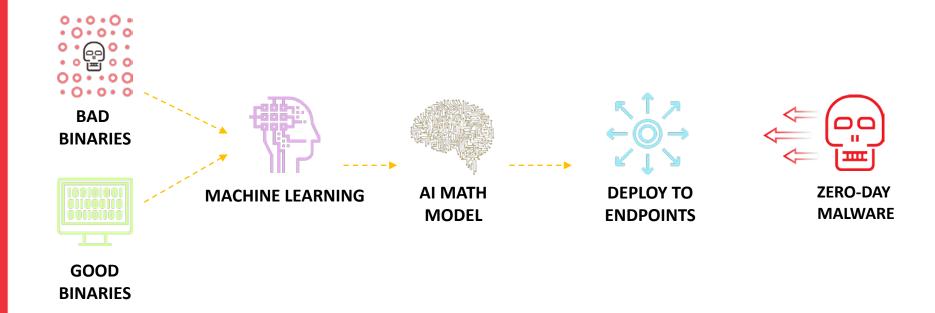


- Progress your endpoint prevention capabilities
 - Leverage machine learning
 - Learn from the past attacks
 - Predict future attacks
 - Prevent execution
 - Automated security



The AI Approach to Security







Tackling Security Challenges with Al



- Volume of malware not slowing
- Progress your endpoint prevention capabilities
 - Leverage machine learning
 - Automate
 - Learn from the past
 - Predict future attacks
 - Prevent execution
 - Test and compare legacy vs NG



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"If you can't get to some level of AI or machine learning with the volume of activity that you're trying to understand when you're [defending] networks from activity of concern, if you can't get to scale, you are always behind the power curve" - Adm. Michael Rogers, NSA

The \$65 million question



Can You Afford To Just Be Reactive?



So What's Next



- Next Week
 - Asses your current security infrastructure
 - Identify the security needs of your environment
 - Define your 2017 security standards
- Next Month
 - Identify the areas your security needs improvement to meet your 2017 security standards
 - Research products for review that obtain that standard with efficiency, speed, and high-scalability in mind
- Within 3 Months
 - Select and deploy a security system that meets your 2017 goals



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