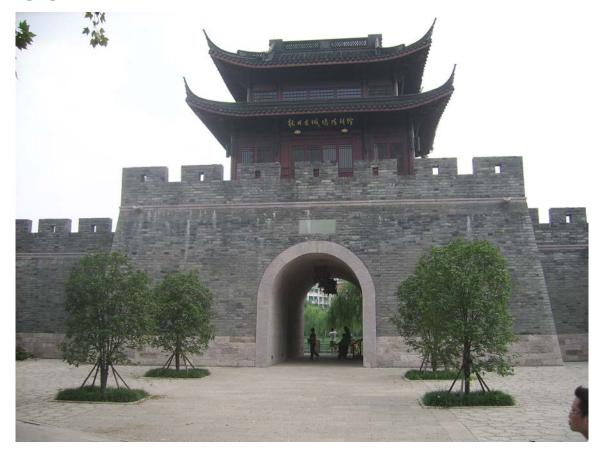
ADVANCED ENDPOINT PROTECTION

Scottie Wang 王信強

Technical Consultant



Old School.....



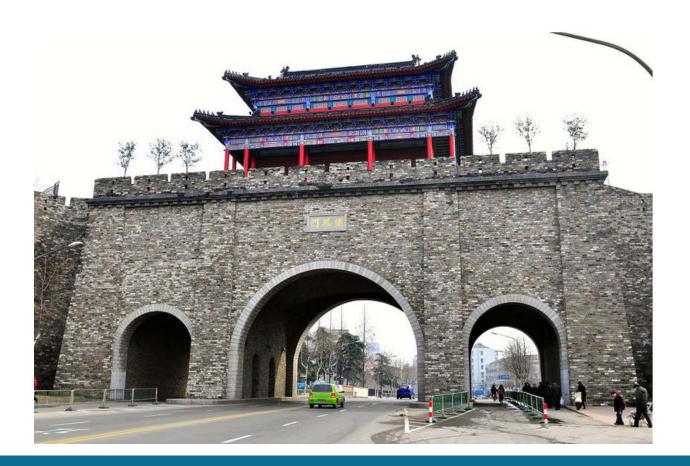


Old School.....





Old School.....





Attackers....





Attackers....





Approach...





Demo



Attackers need to control the endpoint

Attackers objectives require leveraging the endpoint





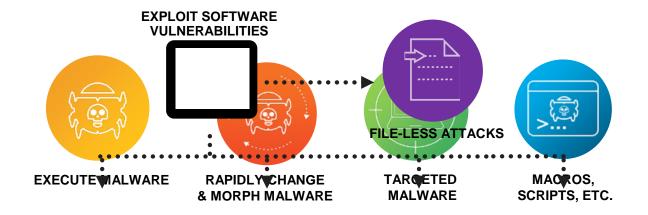


9

Attackers need to control the endpoint

Attackers objectives require leveraging the endpoint







Other solutions optimize for only one aspect...



Signature-based solutions can't prevent unseen malware



Machine learning solutions cannot detect targeted malware



Most solutions have minimal, if any, exploit prevention capabilities



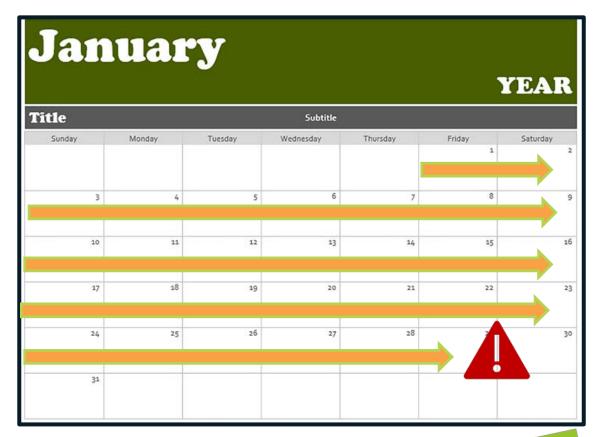
Detection causes event and IR overload



Time to Business Impact of Modern Attacks

There used to be time to:

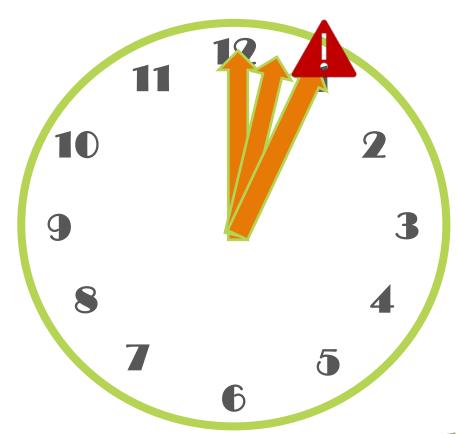
- Scan
- Get Signature Updates
- Invoke EDR and assign a couple employees to fix the few issues...





Time to Business Impact of Modern Attacks

- Ransomware does not take days...
- Far too fast for manual response or human interference
- Your machines still got locked
- Morphing makes every situation potentially patient-zero
- Signature updates leave large windows of vulnerability





Recent Trend of Ransomware

26 September 2017

nRansomware demands your 10 nude photos to unlock your computer

Generally, ransomware are designed to extort money or bitcoin from the victims, but a bunch of turpitude designed a ransomware that ask to send 10 nude images of victims in order to unlock their computers.

The year 2017 is one of the worst in the history of cybersecurity, some old and new ransomware like

Malware

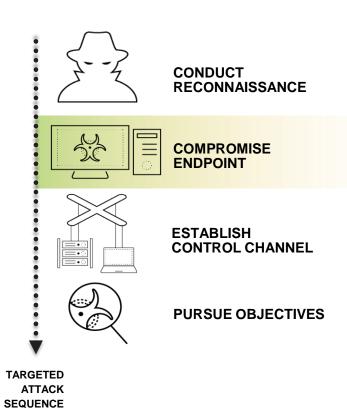
The Bad Rabbit malware was disguised as a Flash update

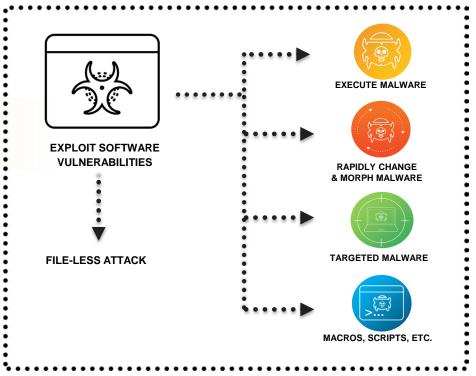
The Bad Rabbit ransomware has similarities with Not Petya but hasn't spread much beyond Russia and Ukraine





The Need For A Multi-Method Prevention Approach







Block the Core Techniques, Not the Individual Attacks

Number of New Variants



Software Vulnerability Exploits

Thousands of new vulnerabilities and exploits per year



Core Techniques

0 - 1

Exploit Techniques

Zero to one new exploit techniques per year

Millions

Malware

Millions of new malware variations per year



Few

Malware Techniques

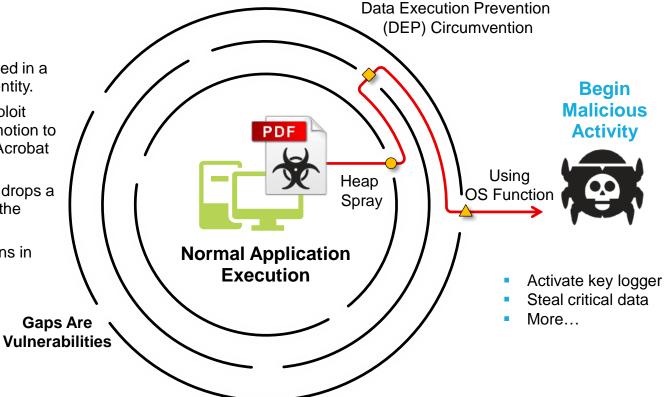
A handful of malware approaches per year



Application Exploit Techniques

Exploit Attack

- Exploit attempt contained in a PDF sent by "known" entity.
- PDF is opened and exploit techniques are set in motion to exploit vulnerability in Acrobat Reader.
- Exploit evades AV and drops a malware payload onto the target.
- 4. Malware evades AV, runs in memory.

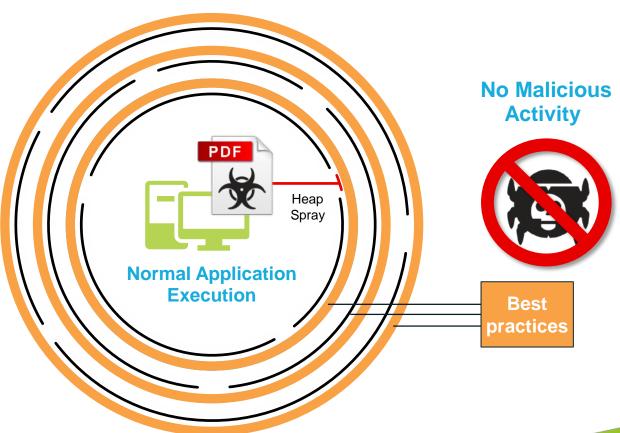




Application Exploit Techniques (Cont.)

Exploit Attack

- Exploit attempt contained in a PDF sent by "known" entity.
- 2. PDF is opened and exploit techniques are blocked by Traps.





Shutdown Attackers with Integrated Remediation

Magna Enables You to Block or Quarantine Users or Devices







Isolate Infected

Machines with NAC





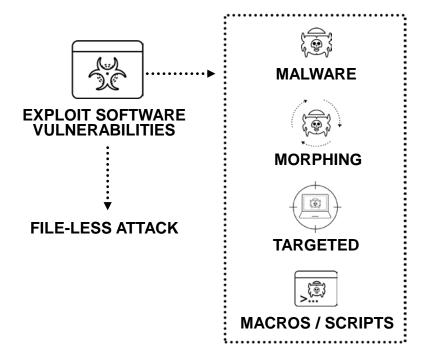


You should be focusing on Prevention





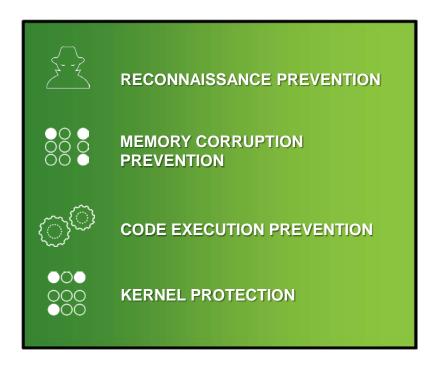
Multi-Method Malware Prevention

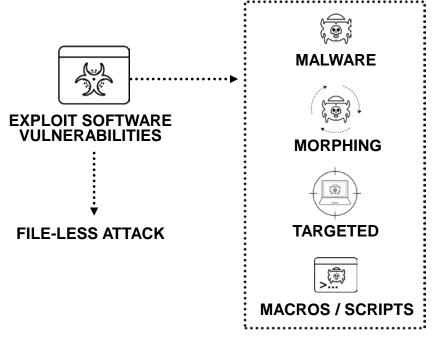






Multi-Method Exploit Prevention







Lower Operating Costs with Accurate, Efficient Alerts



Most IT security teams can't keep up with the deluge of security alerts

LIGHTCYBER ACCURACY



61%
ACROSS
ALL ALERTS





99%
ACROSS MAGNA'S
AUTOMATED "CONFIRMED
ATTACK" CATEGORY

O.9 alerts / 1K endpoints / day



Multi-Method Malware Prevention



Threat Intelligence

Prevents
Known Threats

Local Analysis

Prevents
Unknown Threats

Dynamic Analysis

Detects Advanced Unknown Threats

Malicious Process Prevention

Prevents
Script-Based
& File-Less Threats

Ransomware Protection

Additional Ransomware Protection



Multi-Method Exploit Prevention











Reconnaissance Protection

Automatic
Prevention of
Vulnerability Profiling
Used by Exploit Kits

Technique-Based Exploit Prevention

Blocking of Exploit Techniques Used to Manipulate Good Applications

Kernel Protection

Protection Against
Exploits Targeting or
Originating from the
Kernel



Data Center





Data Center





The Cloud





Hybrid..





Thank You

