

Spinning the Chess Board



2014 to 213 BC





Connected Devices Outnumber People







Leaks

Malware

Vulnerability Exploits

Advanced Malware

Attacks









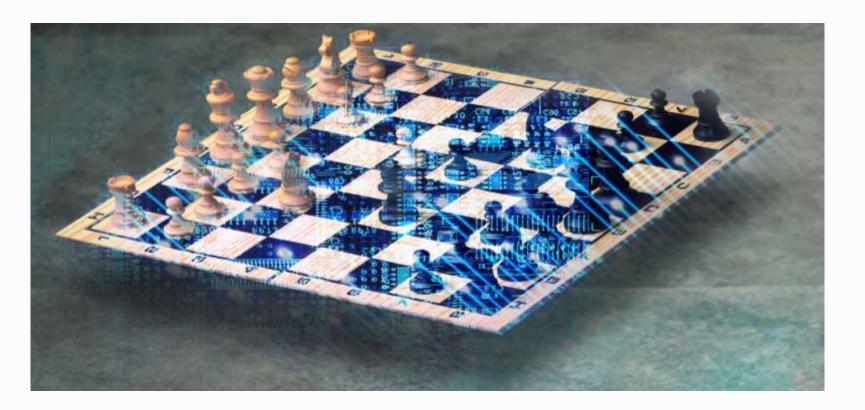








Offense Must Inform Defense





Q2 Industry Attack Campaigns







Arms Bazaar of Attack Code





Menu for Full Service Hacking

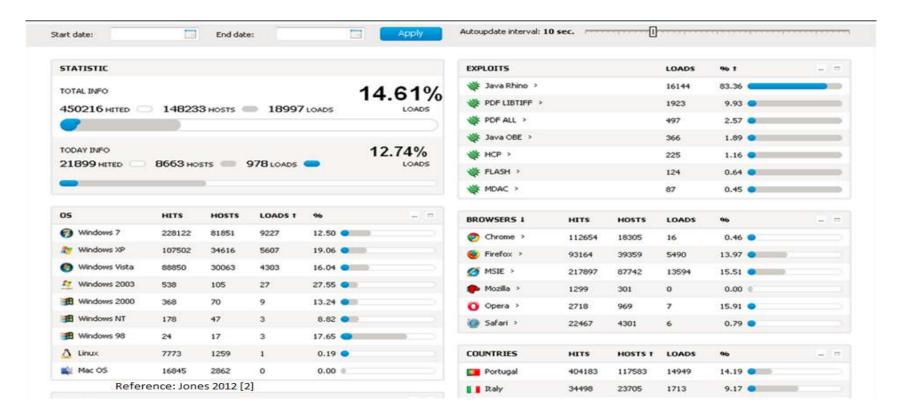


VPN Service	monthly	onetime
·Botnet·Framework·····	\$25	\$0
	\$40	\$125
Bulletproof hosting	\$52	\$0
Exploit Kit	\$38	\$120
	\$0	\$20
Domain names	\$70	\$25
Dropper file and crypt	\$8	\$80

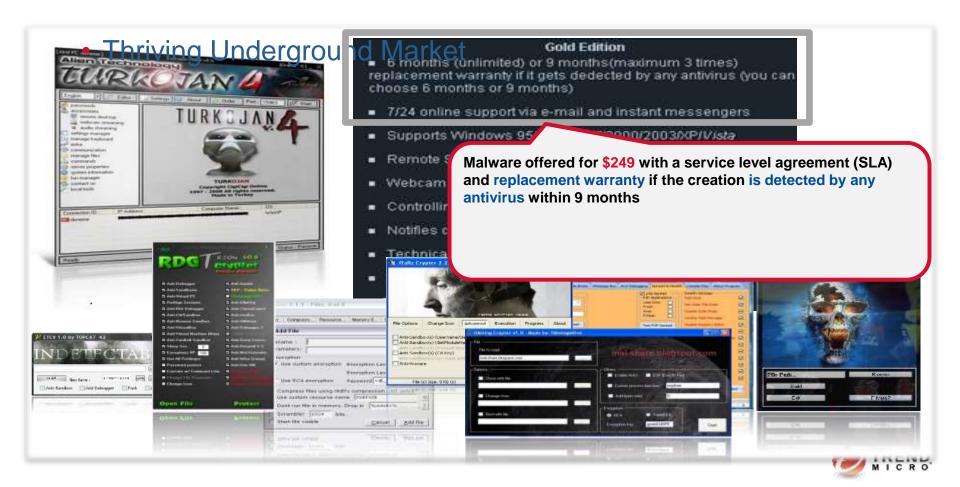
Modules

Total: \$225 \$370

Exploit Kits: Do-it-Yourself

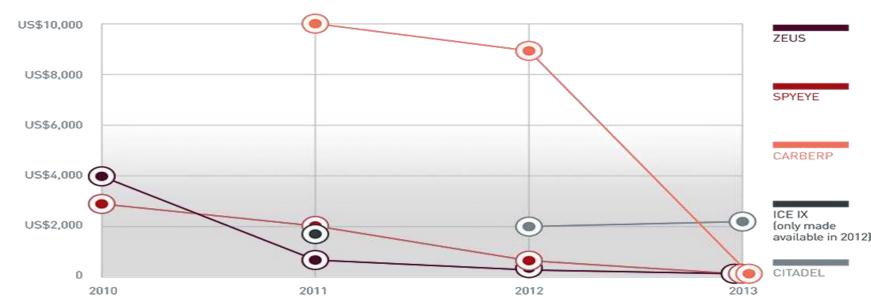






Banking Crimekits Decrease in Price

Underground Price Changes for Basic Online Banking Toolkits



These are estimated going rates. Note that ZeuS and SpyEye have been around since before 2010.



GameOverZeus: GOZ





Zberb



A Comparison of Russian and Chinese Hackers





Weapons Grade Arsenal

- Greater reconnaissance
- Utilization of 0-days
- Undetectable by anti-virus
- Able to withstand normal disinfection methods like reinstalling OS
- Calling home is undetected by DLPs and IPS/IDS
- Data extraction, command and control even across an air gap







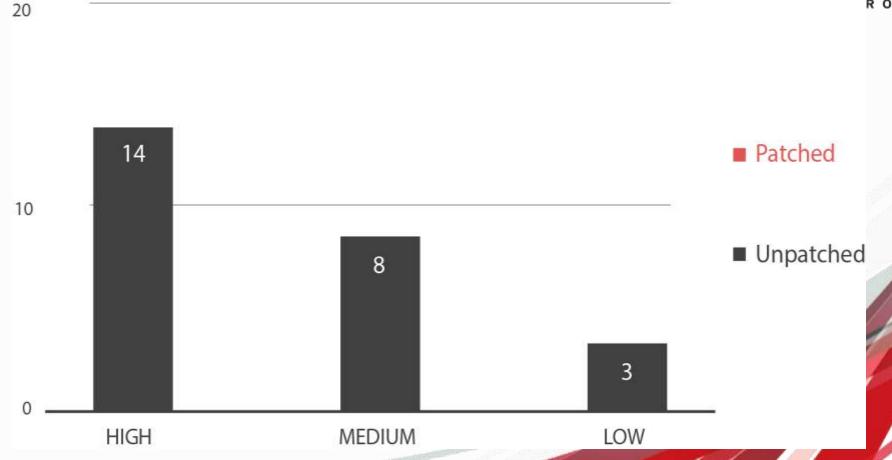




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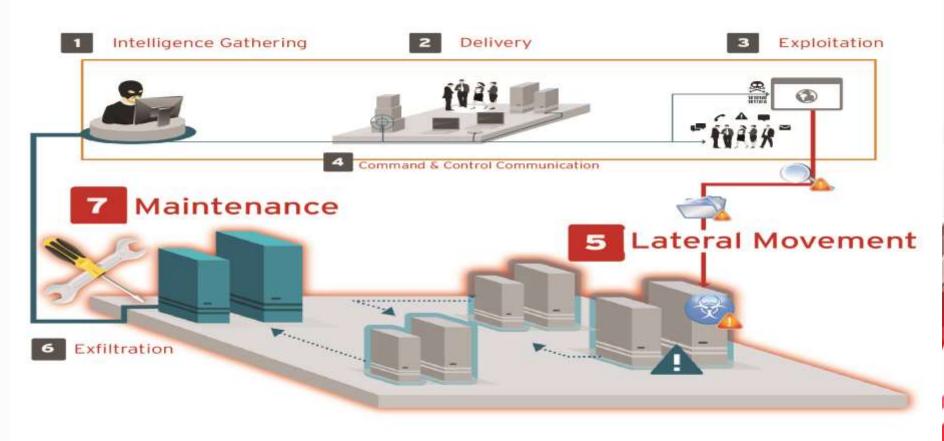
Q2 Serious Java Vuls





Offense Must Inform Defense





Exfiltration: Most Used APPs and Protocols

























Evasions

- Packers
- Compressors
- Metamorphism
- Port Binding

- Polymorphism
- Virtual Machine
- Sandbox



Dropping In





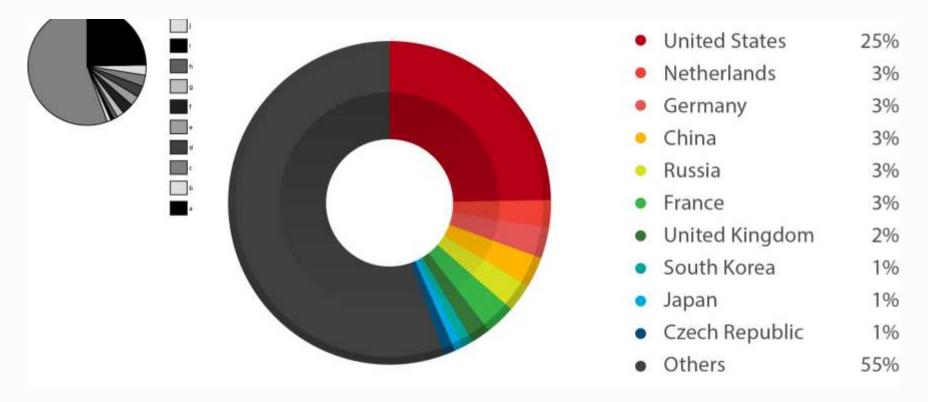


Watering Hole Attacks





Malicious URLs by Country



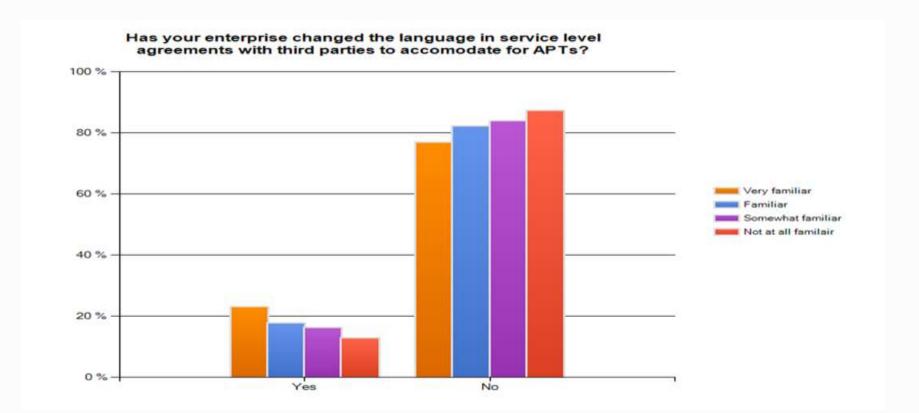


Island Hopping





81% Have Not Updated SLAs





Man-in-the-Browser Attacks





EMMENTAL





The Evolution of Mobile Attacks





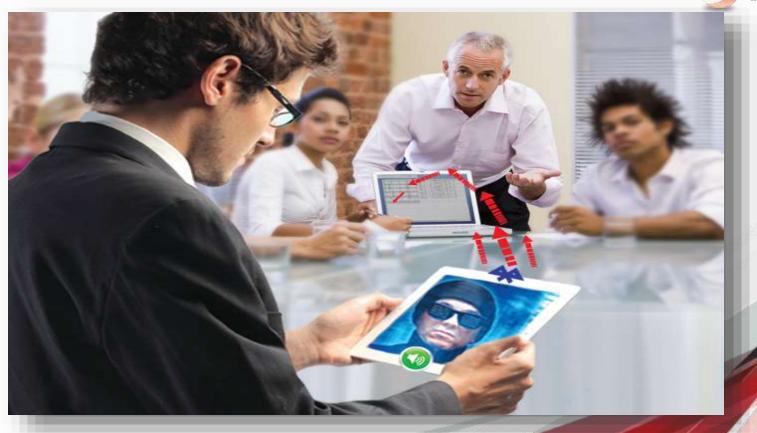
Mobile Ransomware: Svpeng & Locker





Proximity Attacks Realized











Energetic Bear





2014 Cyber Attack Trends

- 1. Island Hopping
- 2. Mobile Malware/Proximity attacks
- 3. Cross-Platform Attacks
- 4. Man-in- the- Browser Attacks
- 5. Watering Hole Attacks
- 6. Ransomware
- 7. Cloud Attacks





Foiling the Digital Insider







Opportunities to Detect the Breach



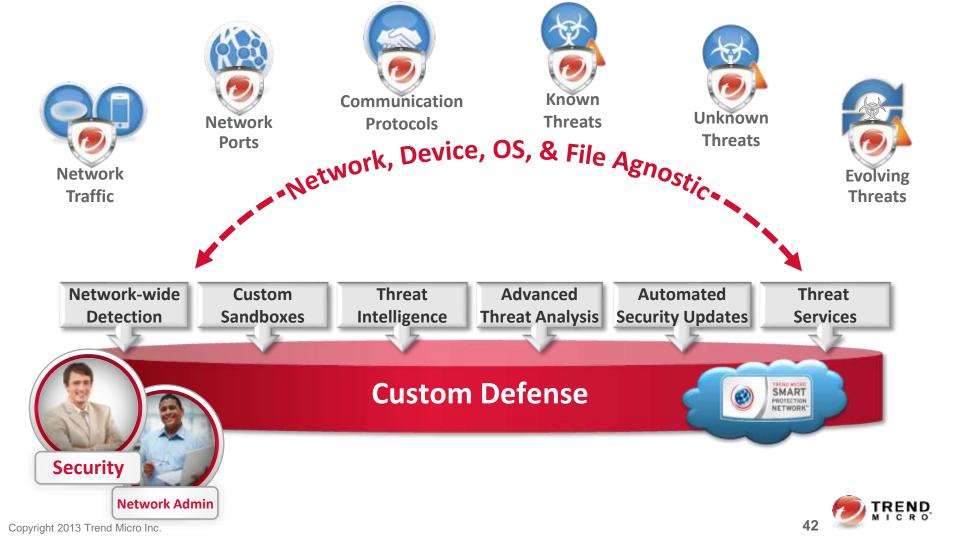


Advanced Persistent Response









Risk Management in 2014



- Conduct Pen test of all third parties.
- 2. Use Two-factor authentication.
- 3. Conduct egress filtering.
- 4. Deploy file integrity monitoring.
- 5. Implement virtual shielding for zero day exploits.
- 6. Deploy both an MDM and Mobile Application Reputation software.
- 7. Deploy a DLP.
- 8. Implement whitelisting.
- 9. Manage the crypto keys for your cloud data.
- 10. Implement DMARC.
- 11. Deploy context aware Threat Intelligence.
- 12. Utilize a Breach Detection System.

Breach Detection with Deep Discovery



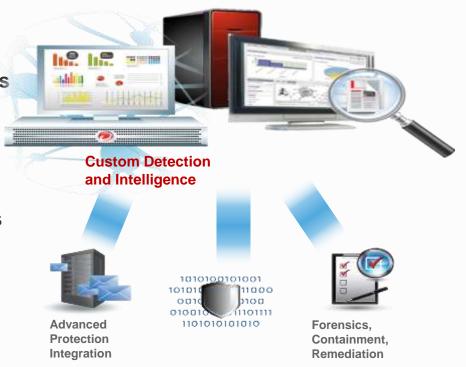
360 Degree Detection

- Custom sandboxing
 - Matching precise customer specs
 - Mobile, Mac, and more
- Beyond malware
 - C&C comms, attacker activity
- Beyond web & email traffic
 - 80+ protocols/apps over all ports



Custom Intelligence

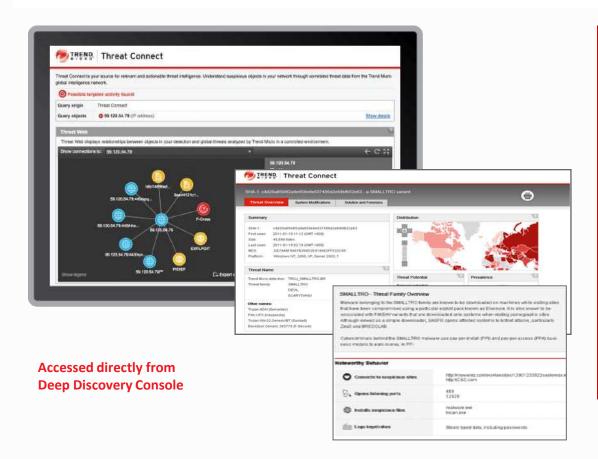
- Smart Protection Network
 & Threat Researchers
- Threat Connect for custom intel



Custom Security Updates



Threat Connect Portal – Impact Analysis



Threat profile: What are the characteristics, origins and variants of this malware.

Related IPs/Domains: What are the known C&C comms for this attack.

Attack Group/Campaign: Who and what is behind this threat.

Containment and remediation:

What to look for, how to eradicate.





Situational Awareness





