Global Internet Security Threat Landscape 2018 ITU Workshop on Advanced Cyber Security Attacks and Ransomware

Thomas Hemker, CISSP, CISM, CISA Director Security Strategy, CTO Office - Symantec

Thomas Hemker, CISSP, CISM, CISA



#THeSecurity (LinkedIn, XING, ResearchGate, noFB)

Thomas_Hemker@symantec.com

23 Years IT-Security PGP

CTO Office CISO Contactperson Speaker, Author

ISF, TeleTrust, Bitkom, ENISA ISACA, (ISC)2, HDG

Hamburg







https://www.symantec.com/security-center https://www.symantec.com/security_response/publi cations/monthlythreatreport.jsp @threatintel





Big Numbers





Some Key Findings

- Cryptojacking Attacks Explode by 8,500 Percent
- Implanted Malware Grows by 200 Percent, Compromising Software Supply Chain
- Mobile Malware Continues to Surge
- Business-Savvy Cyber Criminals Price Ransomware for Profit
- Majority of Targeted Attackers Use Single Method to Infect Victims





Symantec.



Crypto Jacking Predictions



Distributed mining, either through conventional botnets of malware-infected computers and IoT devices or browserbased coinminers, hosted on websites.

TARGETING ORGANIZATIONS

Targeting of corporate or organizational networks in order to harness the power of servers or supercomputers.



CLOUD HIJACKING

Cloud services offer the possibility of highpowered mining. This has a possible financial impact on cloud customers where they pay based

on CPU usage.



Living off the Land

Definition: Living off the land

Only pre-installed software is used by the attacker and no additional binary executables are installed onto the system

Fileless Attacks Memory Only Attacks Dual- Use Tools Targeted Attack Groups







Cybercrime Trends

Ransomware

Detections stable at 1,242 per day in 2017 (-2%) Downloader detections increased by 92% 46% increase in new ransomware variants Average ransom down to \$522 from \$1,070

Shift to other attacks

To coin mining e.g. VenusLocker shifted from ransomware to crypto mining To financial Trojans e.g. Emotet activity increased by 2,000% in Q4





Ransomware



- The advent of worm-type ransomware is a new and highly disruptive avenue of attack
- Businesses in particular are most at risk to worm-type threats, which can spread in minutes across poorly secured networks
- Infection numbers are continuing to trend upwards, powered by the WannaCry and Petya outbreaks
- Average ransom appears to have stabilized at \$544, indicating attackers may have found their "sweet spot"
- The U.S. is still the country most affected by ransomware, followed by Japan, Italy, India, Germany, Netherlands, UK, Australia, Russia, and Canada



Families

34% - 64%









https://www.symantec.com/security-center https://www.symantec.com/security_response/publi cations/monthlythreatreport.jsp @threatintel

