

The Reign of Ransomware: 2016 1H Security Roundup

Rami Naccache, *Systems Engineering Manager Trend Micro North Africa*

All your important files are encrypted!

Num had Soid Darks. These year employee and your rives to a 72 bootst server concentration

Ye descent year first and an this shoil. Chart Margel and priority may charts from the Codel and reaction a filmer waiter. Given adder Date

Which is the two of the structure of the software will a set in post - decouption of the determinant during track days the software will be decoupted on the two software and post-software the software the software decoupting (special days of more post-software days of the decoupted of the software and the software days of the decoupted of the data of the software the software data and the software data of the more post-software of the software data of the software data of the more post-software of the software data of the

deputy 7 dames ofter which the postant unreal and the postant strength

Time left: 60:4

How much do you value your data?

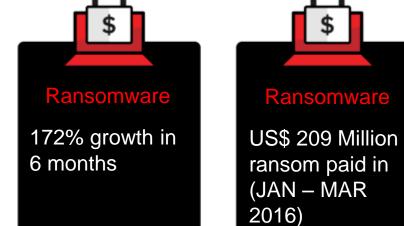
\$500? \$20,000?

\$100?



Threat Realities







US\$ 3 Billion lost globally (since JUN 2016)

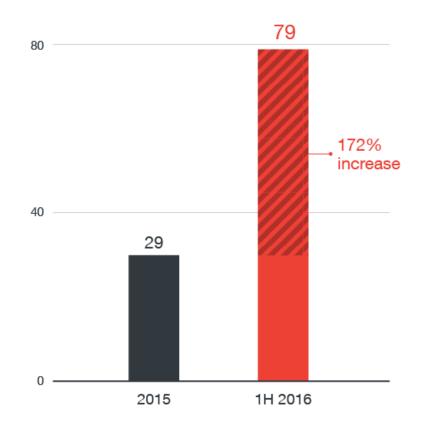






Ransomware is the biggest threat of 2016.





172% growth rate in the first 6 months of 2016



Industry Impact





New Ransomware Behaviors

- Improved social engineering lures
- More platforms and systems to infect
- New network-related capabilities
- New extortion tactics
- Direct server attacks



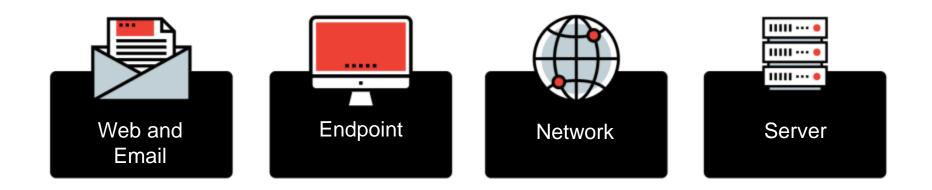
Ransomware Targeting Enterprise



Trend Micro multilayered defense addresses ransomware at any stage of infection.



Ransomware Entry Points





Business Email Compromise threatens organizations globally.



- 1 Threat
- 22,000 victims worldwide
- US\$ 120,000 loss per scam
- \$3B worth of losses globally



Most Affected Countries





BEC Tactics

- Bogus invoice scheme
- CEO fraud
- Account compromise
- Attorney impersonation
- Data theft

BEC Components







Social Engineering

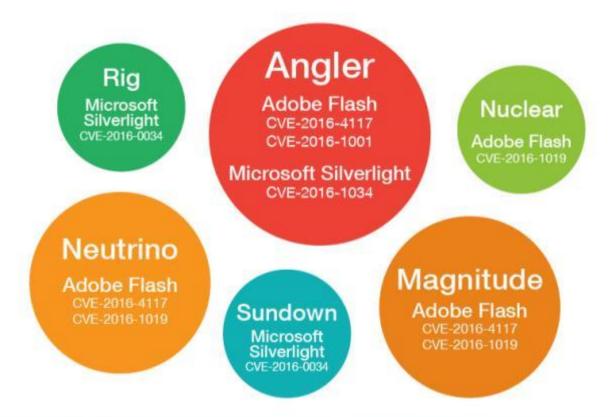
Malware



Exploit Kits continue to make life difficult with new vulnerabilities and ransomware families.



Exploit Kits and Vulnerabilities



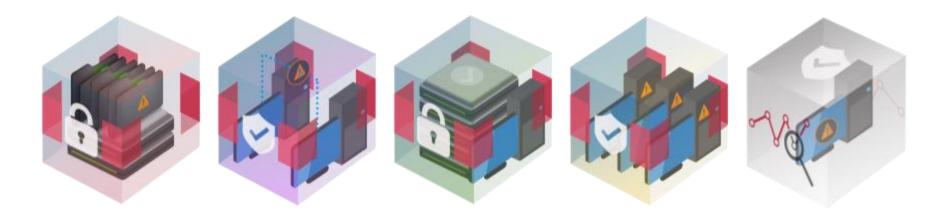
indexOf(Reyword(b) ecaabb, for (btegerby taomeageag encesfaf"ds&#[a[b]b&&eA2ttije+a b[c]. jord; #63sclass; poth(b[c] "):pabe=t\$("#Usen±ł9saadčlay3 -0;g¢aaf**er**e**y**_from_string(b) *th{ffinee(b*a≹**90**gbb**%**[&]cMlength§ *lastatintt)a*∂indexQf(¢€ABVe 184**9)** Trêmove Class (46 A b. Seagenrey_from_string

1 million hits to EKhosting sites blocked monthly

473 vulnerabilities discovered in 1H



Protection Against Exploit Kits



Trend Micro Virtual Patching Trend Micro Deep Security Trend Micro Vulnerability Protection

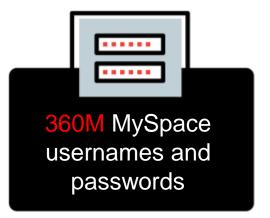
Trend Micro Network Defense **Digital Vaccine Labs**

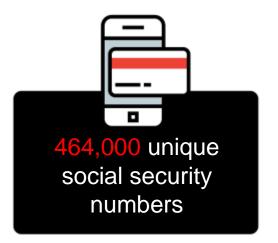


The resilient threat of Data Breaches



Recent 2016 Data Breaches







Prevention and Mitigation





Block or contain threat

Protect sensitive data



Point of Sale (PoS) malware hounding those behind the times



Payment systems are catching up to today's security needs.

But a majority still use traditional Point of Sale machines



For the complete report, please visit:

http://www.trendmicro.com/vinfo/us/security/research-andanalysis/threat-reports/roundup/the-reign-of-ransomware

Created by:

TrendLabs

The Global Technical Support & R&D Center of TREND MICRO