

Kevin San Diego Cloudmark Product Management November 8, 2018



1st General Meeting



450+ Million Protected Email / Mobile Users Worldwide

5+ Billion Messages Scanned Daily

15 Second Live Threat Updates

100+ Security Threat Operations & Researchers

120+ ISP, Mobile Network Operators & Hosting Customers

98% Customer Retention



















Changes in DomainName Registrations

- Explosion of Generic Top-Level Domains (gTLDs)
- Registrars offer bulk discounts for gTLD registrations

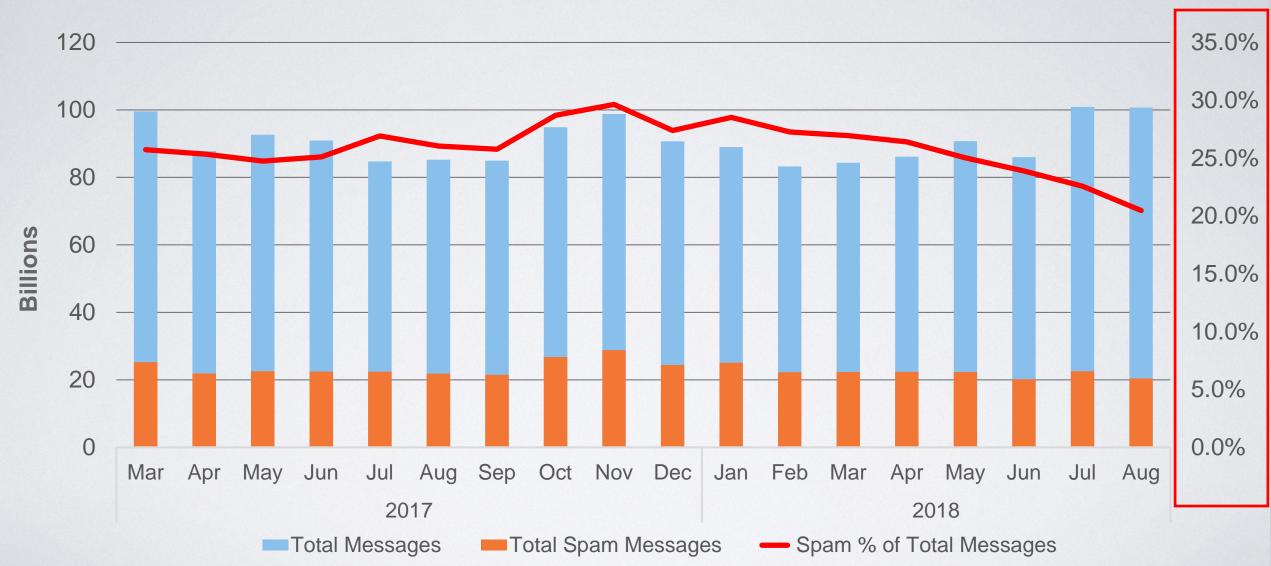


Top 30% of gTLDs seen in 2018 send 90+% Malicious Content.

Threat Trends: Japan vs. Rest-of-World

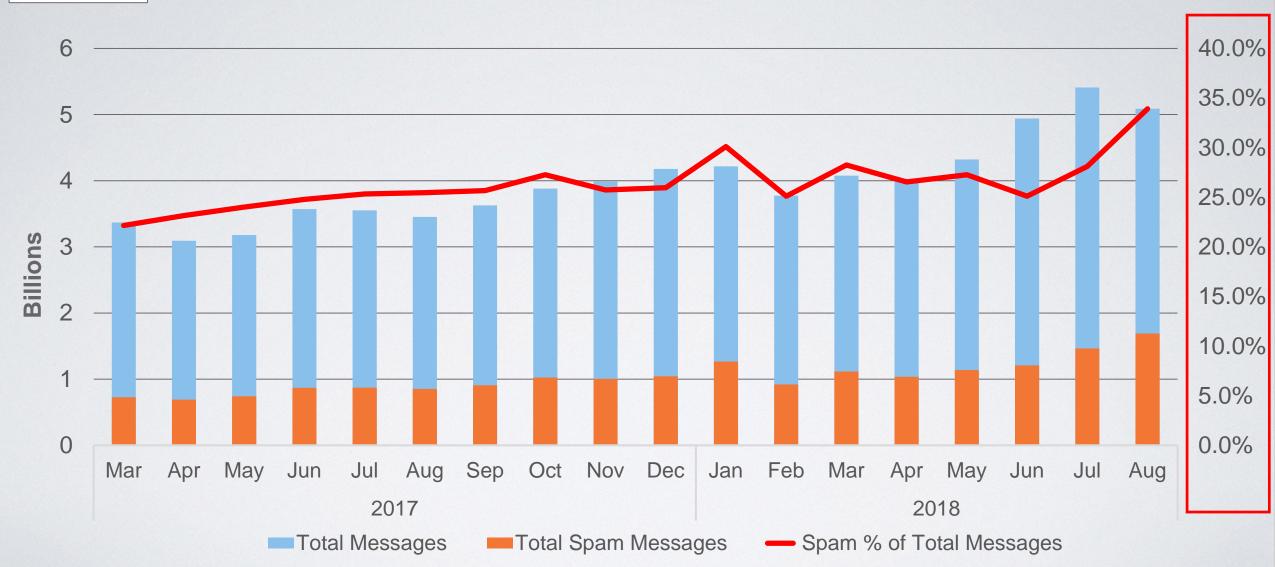


Overall and Spam Message Rates Globally

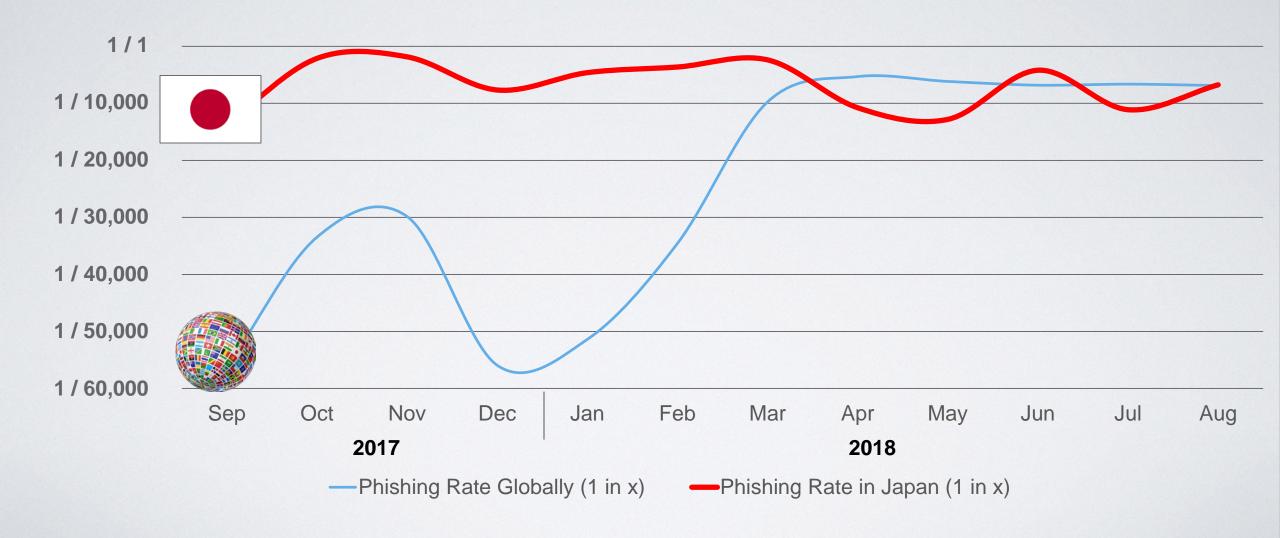




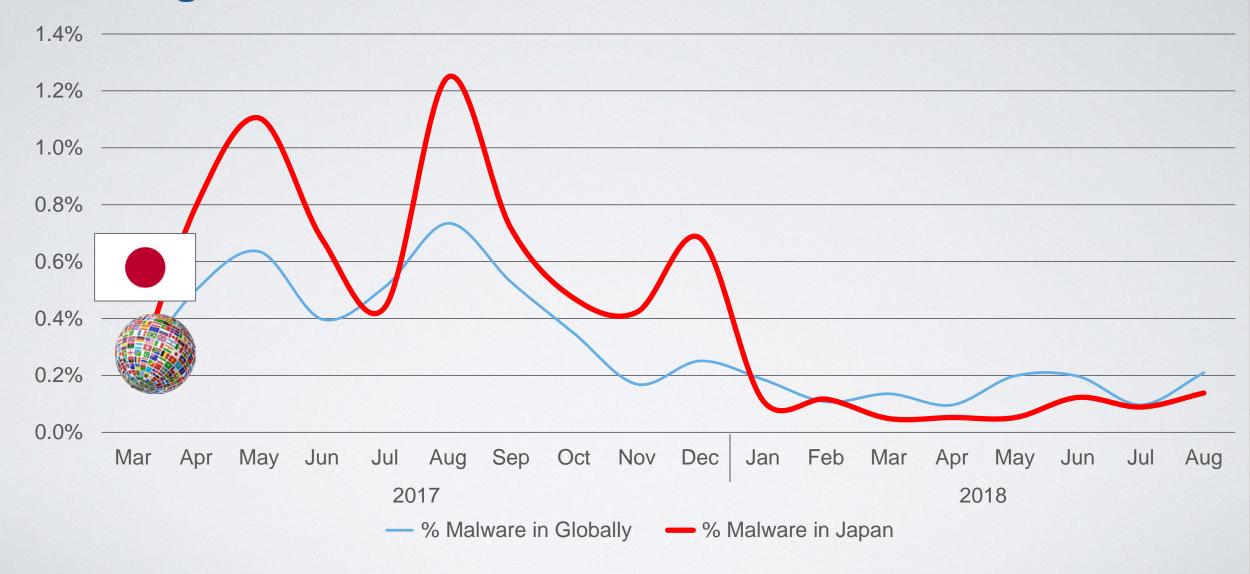
Overall Spam Message Rates in Japan



Phishing Ratio (1 Phish in every n Spam)

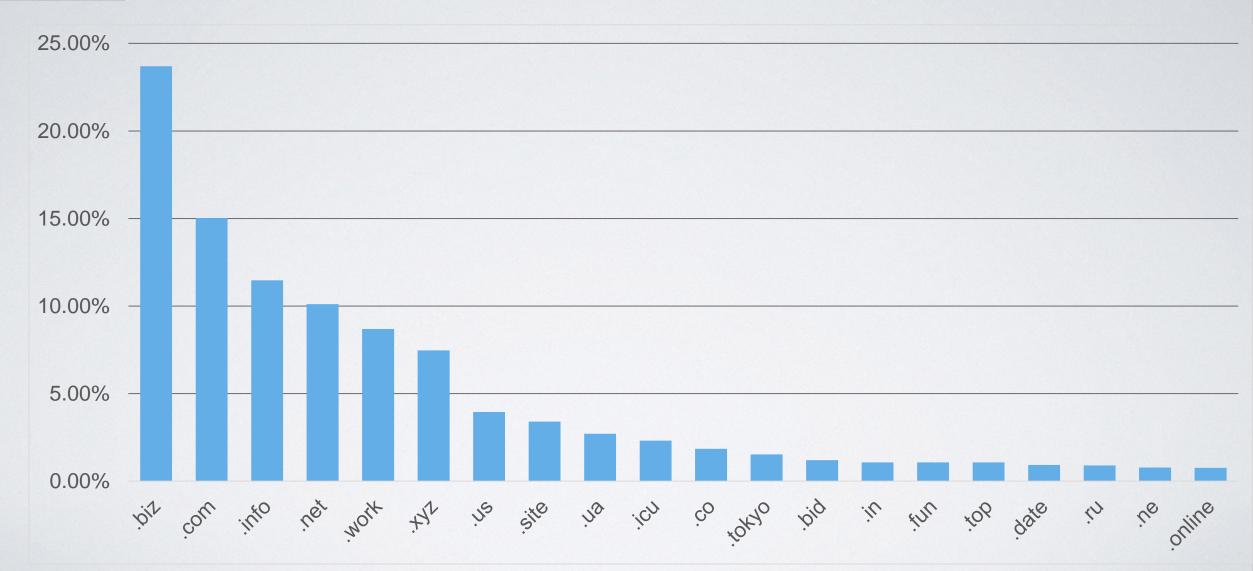


Malware Messages as Percentage of Unwanted Messages





Main TLDs Observed in Spam Call-To-Action URLs



DMARC Deployment Examining Companies in the Nikkei 225

DMARC Deployment Statistics in Japan Analysis of Nikkei 225

95% of Nikkei 225 Companies Have Not Deployed DMARC

5% Have DMARC Deployed*

- Asahi Glass
- Eisai
- Fast Retailing
- Mitsubishi Estate
- Mitsubishi UFJ Financial
- Mizuho Financial
- NTT DATA
- Olympus
- Rakuten
- Sumitomo Mitsui
- Trend Micro

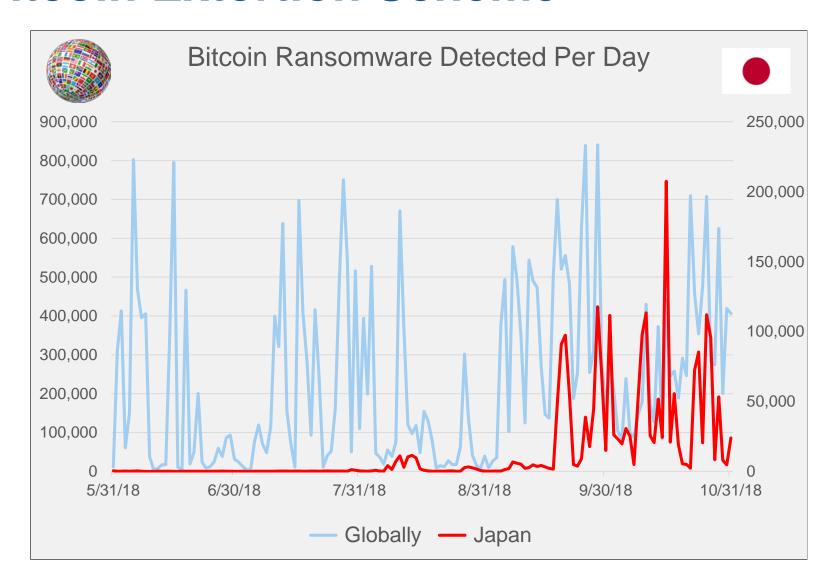
*All are in "p=none" mode

Phishing Threat Trends



"I Hacked You" Bitcoin Extortion Scheme

- Social Engineering scheme
 - Fakes "From:" header
 - Threatens to release embarrassing information unless ransom paid in Bitcoin
- Exploiting email/password dumps
 - In many examples, user's password listed in "Subject:" line
- Very little technical investment required, but campaign has collected over ¥12,000,000 in just a month



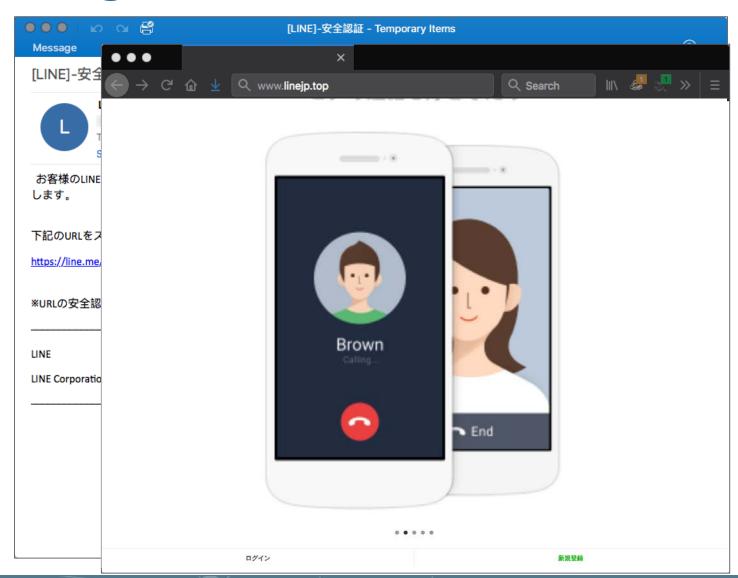
Apple Credential Phishing

- "Account Disabled" phish
 - Prompt users to "log in" to reestablish account
 - Other attacks also include malware payloads
- Once hackers have credentials:
 - Hold user device data for ransom (can wipe)
 - Leverage mac.com/icloud.com email access to reset other 3rd party passwords



LINE Credential Phishing

- Social Engineering scheme
 - Spoofed "From:" header
 - Message appears to be plain text
- Obfuscated URL
 - Redirects to a look alike domain
- Attackers seeking credentials
 - Likely used for account hijacking
 - Extortion
 - "Friend" phishing



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Daily Spam & Virus Activity Q1-Q2 2018



Majority of Messages Stopped using Policy and Reputation Filtering

4B+ Messages
Content
Scanned

Activity detected by Cloudmark Authority.

Daily Spam & Virus Activity Q1-Q2 2018

70%

~15% (+500M – Blocked by Content Filtering)

Majority of Messages Stopped using Policy and Reputation Filtering



~15% Delivered

Activity detected by Cloudmark Authority.

Cryptojacking invitations: COINHIVE Events



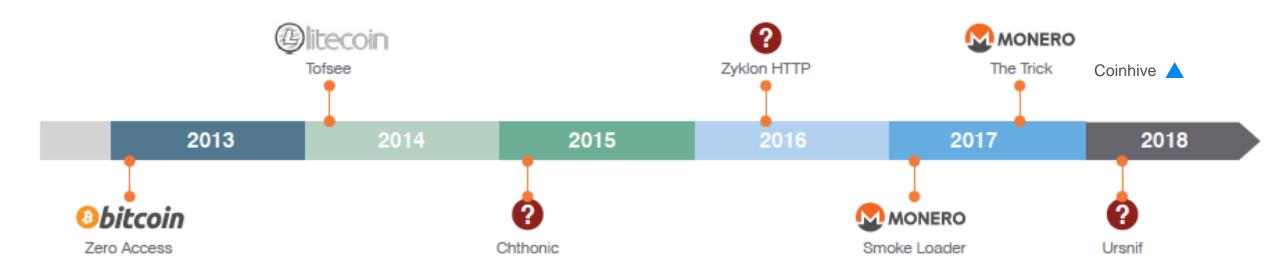
Hijacks computer resources to mine for cryptocurrency.



Undetected by anti-virus.

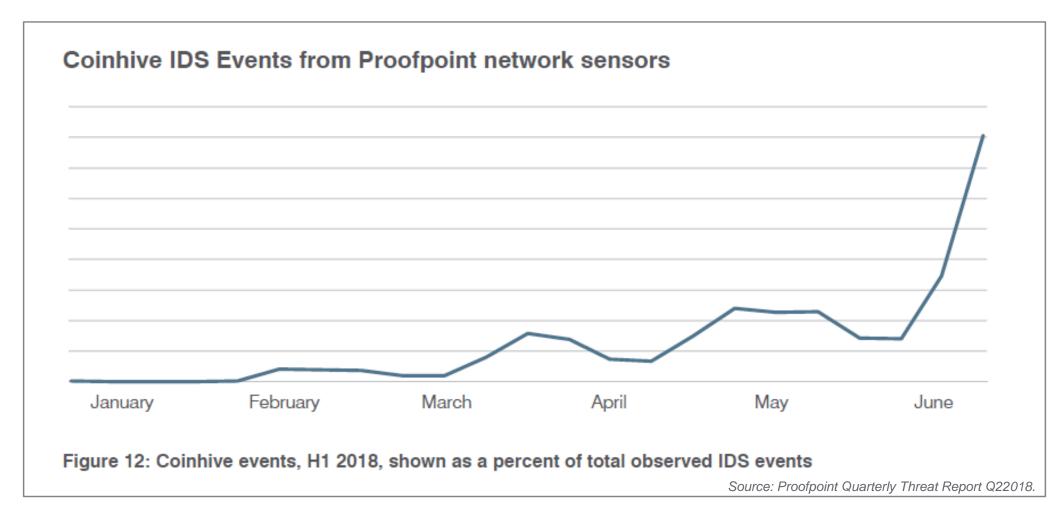
Targets users indiscriminately.

Timeline of Cryptocurrency Mining Malware



Source: Proofpoint Quarterly Threat Report Q22018.

Coinhive IDS Events



Coinhive cryptomining events jumped 460% vs Q1 2018