Threat Landscape Update

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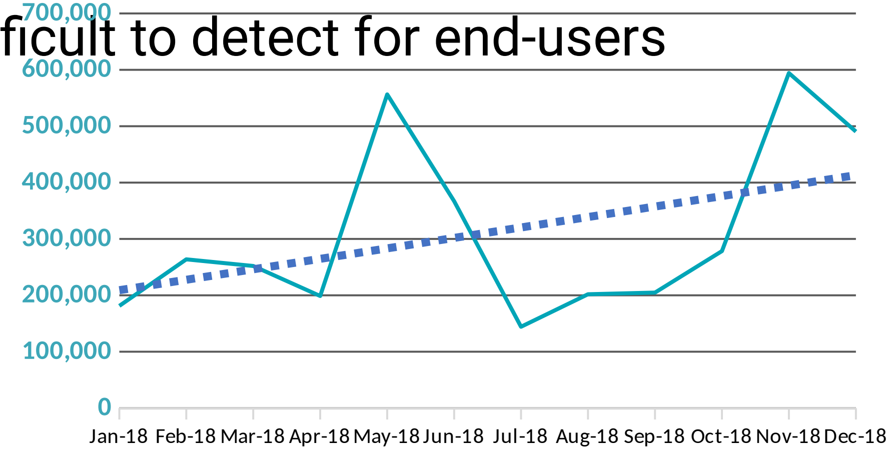
Cybercrime Trends – Focused on Profit

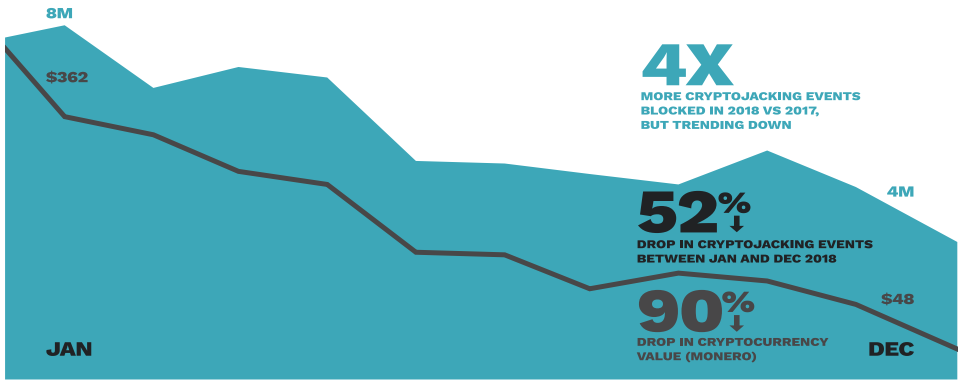
FormJacking

- Formjacking is the use of malicious JavaScript to transparently steal payment card information & PII from compromised websites
- On average 4,800 websites were compromised by formjacking attacks every month in 2018
- We blocked 3.7M formjacking attacks in 2018 on endpoint devices
- Difficult to detect for end-users



CryptoJacking

- Cryptojacking activity remains at high levels with 3.5 million blocked events in Dec 2018
- Over the course of 2018, total cryptojacking events dropped by 52% as cyptocurrency prices dropped by almost 90%
- Overall web attacks are up by 56%
- 1 in 10 URLs was malicious (1 in 16 in 2017)



Cybercrime Trends – Focused on Profit

Ransomware

- Enterprise ransomware infections are up 12%
- Mobile ransomware infections are up 33%
- Overall ransomware infections were down by 20% as attackers moved to more lucrative activities

-20%

+12%

Smartphones

- 1 in 36 mobile devices had a high risk app installed
- Only 23.7% of Android phones run the latest major OS version. On IPhones 78.3% are on the newest major release
- Social media increasingly used to spread fake news/propaganda

Attack Trends IoT and Cloud

Internet of Things

- 75% of compromised devices were routers, followed by cameras 15%
- 5G connectivity will change the landscape with more directly connected devices
- Weak passwords & device exploits are most common attack vectors
- Used for DDoS, crypto jacking, ad-fraud, but other methods grow

Cloud Environment

- Attacks against AWS, Azure, Kubernetes, Docker, serverless applications and exposed API services increased
- At least 70 million records leaked from AWS S3 buckets in 2018 -> more data breaches
- Vulnerabilities in hardware chips & infrastructure place cloud services at risk: Meltdown, Spectre, RunC, SDN exploits

Attack Trends against Corporations

Targeted Attacks

- Remain undetected for as long as possible, move lateral to many systems
- Spear-phishing remains the primary vector for targeted attacks with 65%
- Intelligence gathering is primary motive (96%)
- APT groups are going after ICS/IoT devices
- Less zero day vulnerabilities used

Living off the Land and Supply Chain Attacks

- The misuse of legitimate system tools a.k.a. “Living off the Land” increased again in popularity - Simple, but effective
- Use of malicious PowerShell scripts increased by 1000%
- Office files accounted for 48% of malicious email attachments, up from 5% in 2017 – Supply Chain attacks up by 78% in 2018

QUESTIONS ?

THANK YOU

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