Information Services Security Overview

June 2017

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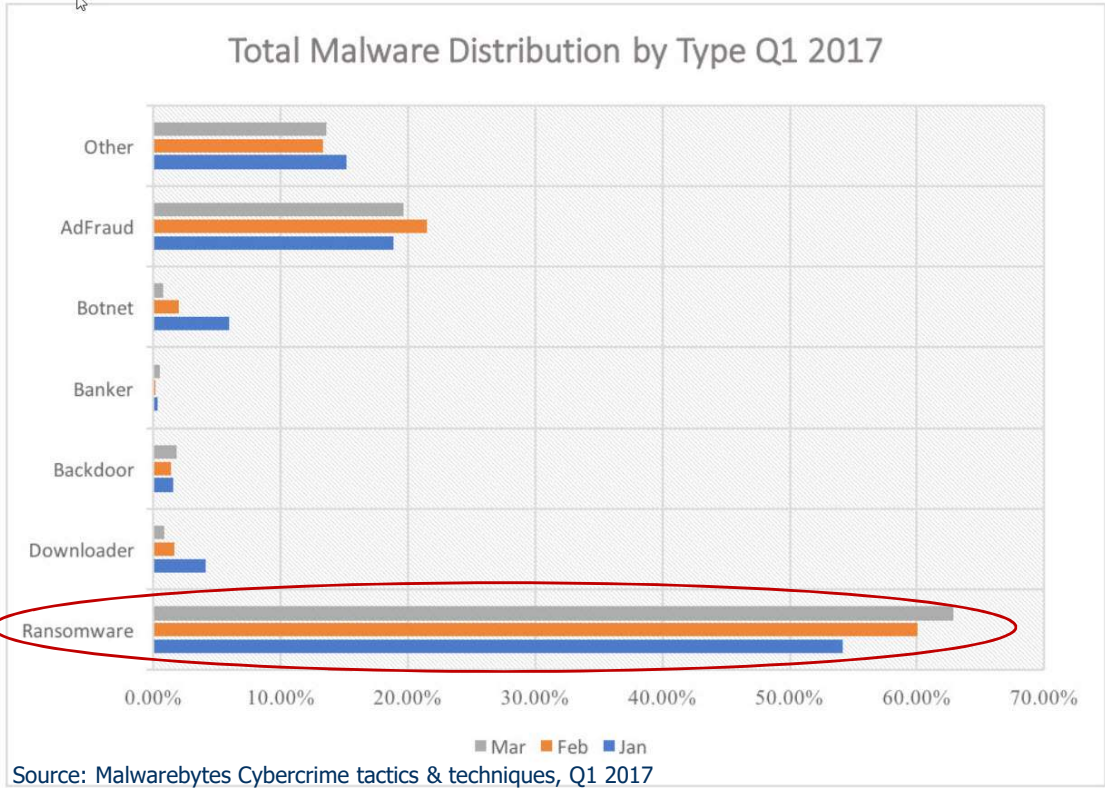22 June 2017

Current & Emerging Global Threats

Common Cyber Security Threats

Threat	Example
Denial of Service Attack	Flooding a website with fake traffic to deny legitimate usage
Data Breach	Exfiltration of an organization's proprietary data
Identity Theft	For the purpose of gaining access to credit or bank accounts
Phishing	Tricking someone to provide personal or proprietary information
Malware	Encryption of a computer system and holding it hostage in return for money or information (Ransomware)

FBI Recommended Countermeasures

✓ Cybersecurity Awareness Training	✓ Data Backup and Recovery
✓ Implement Spam Filters	✓ Software Restriction Policies
✓ Email Threat Scanning	✓ Use Least Privilege Access Controls
✓ Frequent Patching of Infrastructure	✓ Implement Server Virtualization
✓ Anti-Virus / Anti-Malware with frequent scanning	✓ Conduct Annual Penetration & Vulnerability Testing

Total Malware Distribution by Type Q1 2017

Categories (top to bottom): Other, AdFraud, Botnet, Banker, Backdoor, Downloader, Ransomware

X-axis: 0.00% 10.00% 20.00% 30.00% 40.00% 50.00% 60.00% 70.00%

Legend: Mar, Feb, Jan

Source: Malwarebytes Cybercrime tactics & techniques, Q1 2017

- Ransomware has become the malware of choice
- Americans are twice as likely to pay ransom than other victims globally (64% vs 34%, Symantec)
- 18 million new malware variants were identified in Q3 2016 (Panda Labs)
- Cybercrime is expected to cost businesses $2.1T by 2019, a 4x increase from 2015 (Juniper Research)

Information Traffic Since February 1st

OLIS Web Hits Since 1 Feb
- Total OLIS pageviews: 5,192,525
- Unique pageviews: 4,006,671
- Usage: 53.8% Returning Users, 46.2% New Visitors

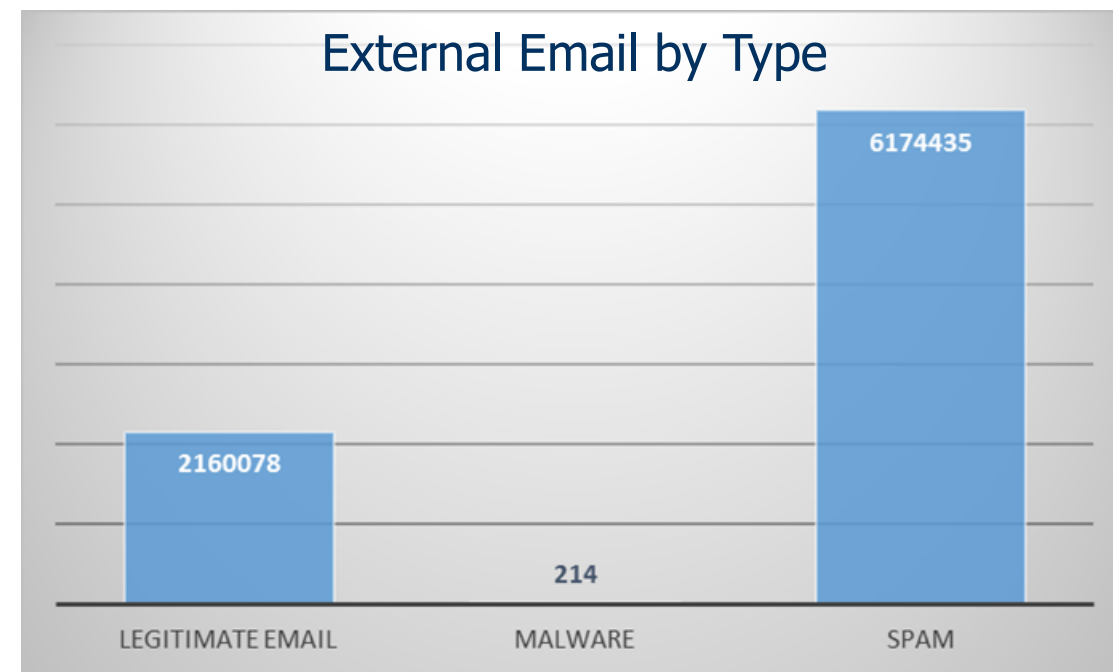Granicus Views (Committee and Chamber video)
- Total Granicus Pageviews (includes video, agendas, etc.): 929,828
- Total Media Streams viewed: 267,844
- Total Visits: 169,177
- Unique Visitors: 130,748

Capitol E-Subscribe
- Total Emails Sent: 8,484,267
- Emails sent to people who have subscribed to Bills, Committee Agendas, Member Press Releases, Jobs, etc.
- Number of people currently subscribed: 617,347
- People subscribed to bills, committee agendas, member press releases, jobs, etc.

ODATA Usage
- Total registered users: 56
- Total requests for data to the Odata service: 18,497,808
- Industries of users: A variety, ranging from Legal, Universities, Media, High Tech., Government, & lobbying

External Email by Type

Bar chart "External Email by Type":
- LEGITIMATE EMAIL: 2160078
- MALWARE: 214
- SPAM: 6174435

Email Traffic
- Total email traffic: 8,334,727
- 26% is legitimate email