

Cybersecurity

2015



Ransomware

Ransomware is one of the most prevalent and lucrative malware attack types. Between April 2014-April 2015 it generated over \$18 million¹ from U.S. infected companies alone.

Ransomware typical extortion rates were \$200-\$10,000 and the FBI's Internet Crime Complaint Centre (IC3) received 992 CryptoWall-related complaints to the year ending April 2015.

Number of global infections of ransomware in Q1 of 2015² were:

- Crypto ransomware: **7723**
- Ransomware: **7809**

Point of sale malware infections

ABI research identified that current malware threatens 51.2 million POS devices in circulation. In 2014 Verizon³ identified 198 total POS security incidents, ABI Research⁴ expect the figure to be

600
by the end of 2015.

Macro Malware

2015 Q1 numbers of macro malware infections were:

92,8372

Malvertising

Google⁵ received more than 100,000 complaints from Chrome users about ad injection since the beginning of 2015.

They found 192 'deceptive chrome extensions' affecting

14 MILLION USERS.

Data Loss

Data lost January to July 2015⁷ date:

339,237,451 records lost

OS X malware instances

2015 had largest number of OS X based malware instances than ever before:

9486

Identity theft

In Q1 2015⁸ number of UK citizens suffering from ID theft stood at 32,058

In the USA 12.7 million⁹ consumers had their identity stolen in the past year costing \$16 billion



BIGGEST BREACHES

Some of the biggest breaches of 2015 so far:

- 1** Anthem¹⁰ lost 80 million records containing Personally Identifying Information (PII)
- 2** Korea Pharmaceutical Information Center/ SK11 43 million users lost PII in this breach
- 3** Ashley Madison¹² breach lost the PII of 32 million users
- 4** Office of Personal Management (OPM) breach resulted in 22.1 million records containing PII being stolen – equating to 1 in 15 Americans¹³
- 5** Premera Blue Cross: 11.2 million records stolen¹⁴
- 6** Carbanak APT hack (discovered by Kaspersky¹⁵) which hit 100 banks around the world and resulted in a loss of on average \$8 million per bank and around \$1 billion in total stolen
- 7** TalkTalk¹⁶ (UK telecoms company) breach with lost the PII of 1.2 million customers', including 21,000 bank account numbers and sort codes



COSTS OF CYBERCRIME

In 2014 PWC¹⁷ found that 9 out of 10 surveyed large organizations had suffered a security breach In 2015 Ponemon Institute¹⁸ found that the average:

- * number of days to remediate an cyber-attack is **46**
- * Average cost per day is **\$21,155**
- * Annualized cost of cybercrime in 2015 ranged from \$3.1 billion to \$65 million. The mean being \$7.7 million
- * Malicious insider costs were highest at \$144,542 with botnets being lowest at \$1,075

- Annual global spend on IT Security to end of 2015 will be \$75.4 billion according to Gartner¹⁹
- Grant Thornton shows that global cost of cybercrime for year to Q3 2015 is \$315 billion²⁰
- In the year to date the insurance sector has sold policies for cyber security insurance worth \$2.5 billion²¹
- IoT security market is worth \$6.89 Billion (USD) in 2015²²
- In the first half of 2015, global start-up ventures in the cybersecurity space raised \$1.2 billion in investment²³

Sources

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¹⁶ TalkTalk website announcement: <http://help2.talktalk.co.uk/oc122incident>
¹⁷ PWC 2015 Information Security Breaches Survey: <http://www.pwc.co.uk/assets/pdf/2015-isbs-executive-summary-digital.pdf>
¹⁸ Ponemon Institute: 2015 Cost of Cybercrime Study: <http://www-03.ibm.com/security/data-breach/>
¹⁹ Gartner press release September 23 2015: <http://www.gartner.com/newsroom/id/3135617>
²⁰ Grant Thornton International Business Report: <http://www.granthornton.co.uk/en/news-centre/cyber-attacks-cost-global-business-over-200bn-a-year/>
²¹ Lloyds Banking Group: <http://fortune.com/2015/01/23/cyber-attack-insurance-lloyds/>
²² Markets and Markets Research: <http://www.marketsandmarkets.com/Market-Reports/iot-security-market-67064836.html>
²³ CB Insights Blog Post: <https://www.cbinsights.com/blog/cybersecurity-industry-startup-funding-trends/>