## Cybersecurity Threats You **Should Know About in 2018**

Read the Microsoft Security Intelligence Report, Volume 23 for a full account

Every year, Microsoft collects security and threat intelligence from their global network and compiles the trends into the Microsoft Security Intelligence Report. To keep up with the always evolving landscape, the Security Intelligence Report provides a thorough analysis of security threats and how to best mitigate the top attack types.

The report investigates three main topics:





**Easy Mark** Attack Methods



Ransomware

## **Botnets**

Bots are programs that allow attackers to infect and take control of computers, and botnets are a network of those bots controlled by command-and-control (C&C) servers. On November 29, 2017, Microsoft's Digital Crimes Unit tackled a leading botnet that infected more than 23 million IP addresses: Gamarue. Find out more in the full report.

Microsoft analyzed over 44,000 malware samples that revealed Gamarue's sprawling infrastructure.



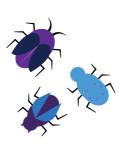
1,214

domains and IP addresses of the botnet C&C servers



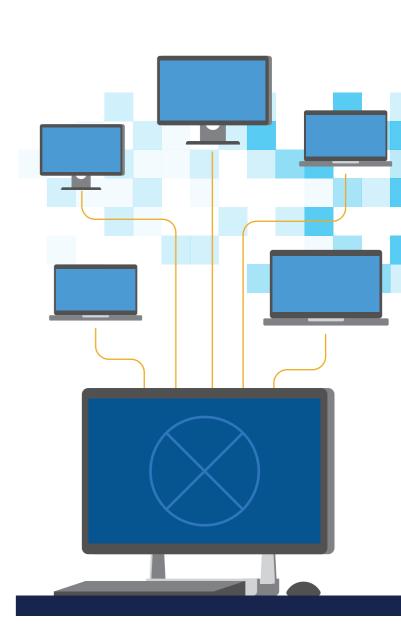
464

distinct botnets

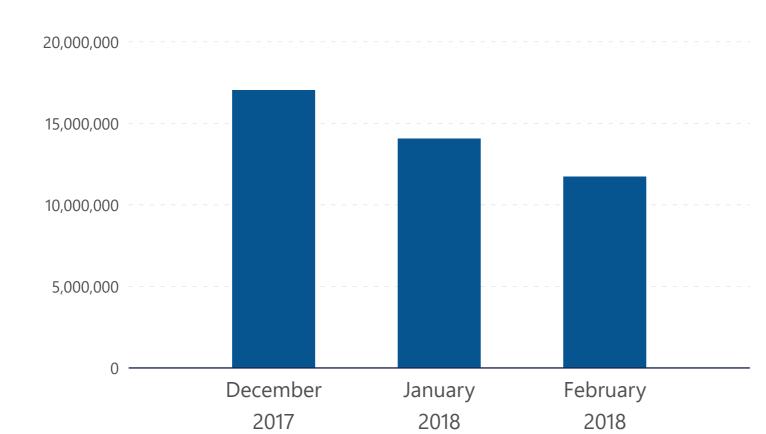


+08

associated malware families



## Infected devices per month (after Gamarue disruption)





advanced machine

learning to detect

types of malware.

Gamarue and other

# **Easy Mark Attack Methods**

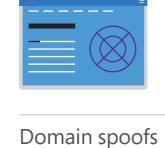
With advancing security solutions, hackers are more apt to go after easy targets through social engineering and are constantly evolving their tactics for maximum efficiency. Here are two examples of low-hanging fruit; read the report for more.



Broad-based phishing and spear phishing both rely on what's most often cited as security's weakest link: people. Phishing can take many shapes, including:



Email links and attachments







Domain impersonation

**Cloud apps** 



Links to fake SaaS apps

## 180,000,000-200,000,000 Approximate number of phishing emails Microsoft

detected each month, over three months (November 2017 - January 2018).



100

### Cloud app adoption is rising to support business productivity, but a lack of security infrastructure could be inadvertently compromising data.

Encrypt data at rest and in transit

# SaaS Storage Apps

do not encrypt data both at rest and in transit.

SaaS Collaboration Apps

79% of SaaS storage apps and 86% of SaaS collaboration apps

## Support for all HTTP headers session protection methods Only 4% of SaaS storage apps and 3% of SaaS collaboration apps support all HTTP headers session protection.

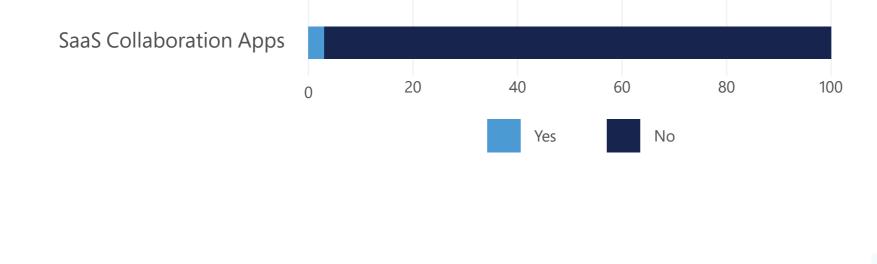
20

40

60

No

80



## **SECURITY RECOMMENDATIONS**

employees on identifying

For phishing, train

and reporting suspicious links to cut off attacks before they can do damage. For visibility into and control over all cloud apps usage across the enterprise, use a cloud access security broker (CASB) security solution.

### Ransomware infects and encrypts files (and sometimes entire disks) to prevent access until a ransom is paid—and there's no guarantee victims will regain access.

Ransomware

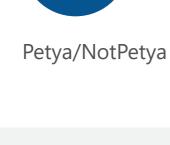
SaaS Storage Apps

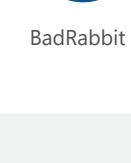
Ransomware made a real-world impact in 2017, bringing down critical services like hospitals, transportation, and traffic systems. Here are few of the unprecedented and devastating ransomware families responsible for the 2017 attacks:



## WannaCrypt

May 2017





**SECURITY** RECOMMENDATIONS Backup your data so it can be recovered in case of a ransomware attack.

**Outbreaks of Various Ransomware Families** 

230,000 computers — the largest ransomware attack ever.

WannaCrypt infects over

## same exploit as WannaCrypt but harnesses additional methods of

**June 2017** 

spreading, making for perhaps the most complex ransomware in 2017.

Petya/NotPetya attack uses the

October 2017 BadRabbit poses as an Adobe Flash update on compromised websites, and spreads through compromised usernames and passwords.

DOWNLOAD THE FULL MICROSOFT SECURITY INTELLIGENCE REPORT,

www.microsoft.com/sir

**VOLUME 23 FOR MORE SECURITY INSIGHTS.** 

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