54%

Threats Report McAfee Labs

I don't WannaCry no more The WannaCry attacks infected more than 300,000 computers in over

150 countries in less than 24 hours.



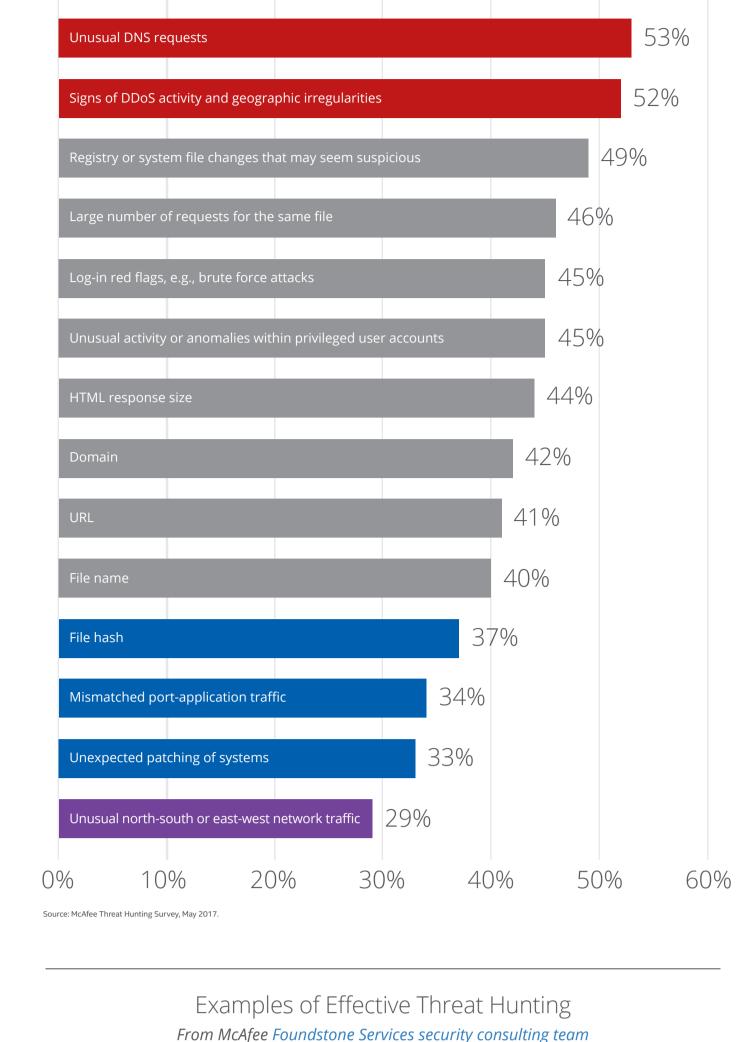
assume that there is always at least one compromised system on the organization's security measures.

Threat hunting like a pro

Threat hunting is a proactive approach to finding attacks and compromised machines without waiting for alerts. Threat hunters

the network, the victim of an attack that has managed to evade Indicators of Compromise Which of the following IOCs do you typically use

for threat hunting?



Hunting for command and control

been detected.

EXAMPLE 3

environments).

How to: Take daily snapshots and analysis on both DNS and user agents. run diffs and least-frequent analysis, focusing on the outliers.



Hunting for privilege escalation Hypothesis: An attacker already present on a compromised system is

How to: Examine the creation of

Event IDs 4728, 4732, and 4756 on

enterprise domain controllers (or individual computers in nondomain

user to a privileged group.

trying to elevate privileges by adding a

Hypothesis: An infected system on

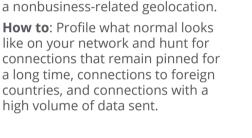
the network is generating command

and control traffic that has not yet

How to: Perform least-frequent

EXAMPLE 5 Hunting for

exfiltration Hypothesis: An attacker is attempting to exfiltrate a large volume of data to a nonbusiness-related geolocation. **How to**: Profile what normal looks like on your network and hunt for



Q4

2015

Movement Hypothesis: An active attacker on the network is trying to move laterally by employing Microsoft's PsExec admin **How to**: Examine the creation of

EXAMPLE 4

Hunting for

persistence

Hypothesis: At least one system is

infected by some malware variant

and that has not yet been detected.

Hunting for Lateral

that has established itself to autostart

Event ID 7045 for evidence of PsExec execution and ID 7045 in combination with ID 7030 for evidence of Metasploit's PsExec execution.

Q2

2017



25,000

20,000

15,000

10,000

Source: McAfee Labs, September 2017.

2,000,000

400,000

Malware

New malware samples leaped up in Q2 to 52

million, a 67% increase.

malware samples grew

quarters to almost 723

Mobile malware

mobile devices rose by

Total mobile malware

grew 61% in the past

four quarters to 18.4 million samples.

42 million

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3580_0917_info-threats-report-wannacry_PAIR

McAfee GTI protections

per day in Q2 from 95

to improved accuracy.

against medium-risk URLs decreased to 42 million

million per day in Q1 due

8%, led by Asia with 18%.

Global infections of

The total number of

23% in the past four

million samples.

0

Source: McAfee Labs, September 2017.

Q3

2015

Q4

Q1

The rise of script-based malware Malware authors use JavaScript, VBScript, PHP, PowerShell, and other

5,000 Q3 Q1

Q2

2016

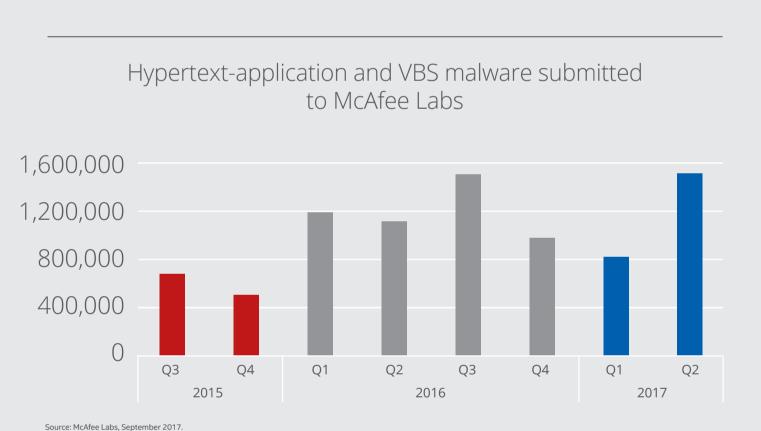
Q3

Q4

Q1

scripts to distribute their malware.

PowerShell malware submitted to McAfee Labs



1,600,000 1,200,000 800,000

Q2

The first steps in an infection

2016

Q3

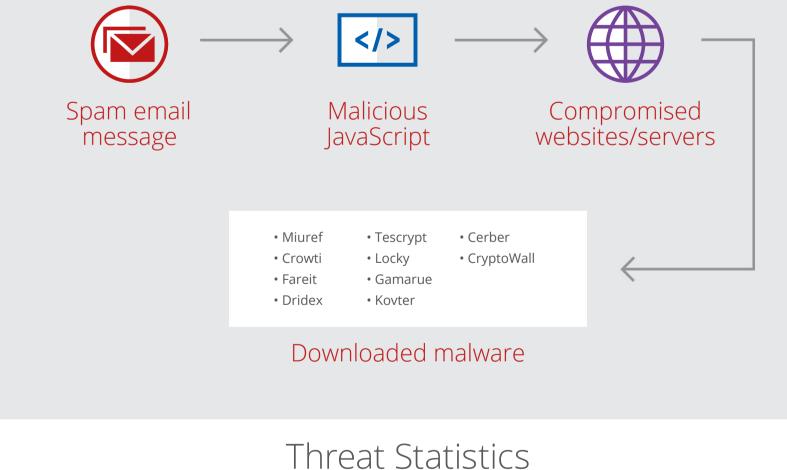
Q4

Q1

2017

Q2

Nemucod malware submitted to McAfee Labs



3%

Q2 took place in the Americas.

We counted 311 publicly disclosed security incidents in Q2, an increase of 3% over Q1. The health, public, and education sectors comprised more than 50% of the total. 78% of all publicly disclosed security incidents in

4%

35%

61%

23%

Incidents

sharply in Q2, by 54%. **The number of total** ransomware samples grew 47% in the past four quarters to 10.7 million samples. McAfee Global Threat Intelligence

McAfee GTI received on average 44 billion queries per day in Q2.

47% Ransomware

New ransomware samples again increased

New macro malware rose by 35% in Q2. **91,000 new** samples raised the total count to 1.1 million.

Macro malware

Mac OS malware

With the decline of a glut of

adware, Mac OS malware

has returned to historical

levels, growing by only

27,000 in Q2. Still small compared with Windows

of Mac OS malware samples increased by

just 4% in Q2.

threats, the total number

77 million

against potentially unwanted

programs rose to 77 million

McAfee GTI protections

per day in Q2 from 56

million per day in Q1.

57 million 36 million McAfee GTI protections against McAfee GTI protections against risky IP malicious files increased to 36 million addresses declined to **57 million per** day in Q2 from 61 million per day in per day in Q2 from 34 million per day in Q1 due to earlier malware detection **Q1** due to earlier detection.

Together is power.

McAfee Labs Threats Report: September 2017

Visit www.mcafee.com/September2017ThreatsReport for the full report.

and better local intelligence.