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Which are the weapons in the arsenal of cybercrime gangs? Which are the most To respond to these questions let's analyze the $\underline{annual\ report}$ published by the threat

Flaws by Cybercriminal

Organizations?

intelligence firm Recorded Future that analyzes Top Ten vulnerabilities used by

The report is based on the analysis of open, deep, and dark web sources; the analysts observed a significant a shift in preference from Adobe to Microsoft exploits.

Seven of the top 10 vulnerabilities exploited by phishing attacks and exploit kits leveraged Microsoft vulnerabilities, an inversion compared with past years which primary saw the exploitation of the Adobe Flash vulnerabilities.

cybercrime underground and dark web, the analysis does not include nation-state activities because third-party suppliers of exploits to a nation-state actor avoid

The researchers at Recorded Future monitored the sale of the exploits in the

the researchers observed that Flash exploits had dominated earlier annual reports. "Microsoft products provided seven of the top 10 vulnerability exploits adopted by

(2015, 2016) which saw consistent targeting of Adobe Flash exploits, states the report. *For the first time, three vulnerabilities remained on the list. For example, the top exploited vulnerability from 2016, CVE-2016-0189 in Microsoft's Internet Explore

exploit kits and phishing campaigns. This is in stark contrast to our previous rankings

remained a popular in-road for criminals. Dark web conversations highlighted a lack

Figure 1 - Top 10 Vulnerabilities Used by Cybercriminals 2017 (Recorded Future Report) The top three vulnerabilities used by cybercriminals are:

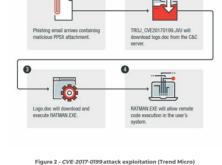
CVE-2017-0199 allows attackers to use a specially-crafted docume

embedding an OLE2link object to spread malware such as the Dridex banking Trojan. While labeled as an Outlook issue, this is actually bug actually stems from an issue within RTF files. According to published reports, the exploit uses an embedded OLE2link object in a specially-crafted document. It should also be

noted that these attacks can be thwarted by enabling Office's $\underline{\textit{Protective}}$ View feature. There are updates for both Office and Windows to be applied,

and both should be considered necessary for complete protection," reads the Patch Tuesday analysis by the Zero Day Initiative The flaw was fixed by Microsoft in April 2017 after threat actors had been exploiting it in the wild. Hackers leveraged weaponized Rich Text File (RTF) documents exploiting a flaw in Office's Object Linking and Embedding (OLE) interface to deliver malware such as the <u>DRIDEX banking Trojan</u>. In August 2017, experts from Trend Micro observed crook triggering the flaw to $\,$ download and execute RATMAN.EXE the command and control (C&C) server

The file used by crooks was a Trojanized version of the legitimate REMCOS remote access tool (RAT). In April security researchers at FireEye discovered that the Microsoft Word CVE-2017-0199 exploit was linked to cyber espionage in Ukraine conflict. In May, Malware researchers at security firm ProofPoint reported the Chinese TA459 APT had exploited the CVE-2017-0199 vulnerability attackers also used exploit kits in their campaigns



CVE-2016-0189 is an old flaw affecting Internet Explorer that was exploited by attackers to drop malware. We have reported cases in which the flaw was triggered to deliver the Matrix ransomware, to drop Monero cryptocurrency

- Miner in Neptune Exploit Kit or <u>Disdain exploit kit</u> campaigns. CVE-2017-0022 is an XML Core Services information disclosure vulnerability that can be exploited by attackers by tricking victims into clicking on a
- "An information vulnerability exists when Microsoft XML Core Services (MSXML) improperly handles objects in memory. Successful exploitation of the

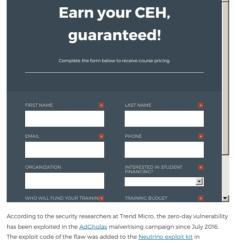
vulnerability could allow the attacker to test for the presence of files on disk," reads the security advisory published by Microsoft. "To exploit the vulnerability, an attacker could host a specially-crafted website that is designed to invoke MSXML through Internet Explorer. However, an

attacker would have no way to force a user to visit such a website. Instead, an attacker would typically have to convince a user to either click a link in an email message or a link in an Instant Messenger request that would then take the user to the website. The flaw was discovered by a joint investigation conducted by security researchers at <u>Trend Micro and ProofPoint</u>, it was reported to Microsoft in

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September 2016

September 2016.



This vulnerability was used in the AdCholas malvertising campaign and later integrated into the Neutrino exploit kit. CVE-2017-0022 likely replaced the similar CVE-2016-3298 and CVE-2016-3351 vulnerabilities from the same campaign, which were addressed by previous patches," reads

the <u>analysis</u> published by TrendMicro.



According to Recorded Future's report, in 2017 the researchers have observed a significant drop in the development of new exploit kits. The experts noticed a 62 percent decline in the development of exploit kits, they observed only a few new EKs in the threat landscape, including AKBuilder, <u>Disdain</u> and $\underline{\text{Terror EK}}$. The experts pointed out that multiple factors have caused the drop, including more specific victim targeting, shifts to more secure browsers, and a rise

explained the experts from TrendMicro. "In particular, the attacker would be able to detect if the system is using specific security solutions—especially ones that analyze

"Overall, exploit kits are declining as criminal efforts have adapted. This comes as cryptocurrency mining malware popularity rose in the past year," continues the The report states that in 2017 the number of new exploit kits was 10 out of a total list

of 158 EKs, experts highlighted that the drop-in exploit kit activity also overlaps with the decline of Flash Player usage, many EKs included the codes to trigger the flaws

rrency mining malware likely led to the decline

hard for attackers the development of new efficient exploit kits Another element that influenced the drop of the EK was the spikes in cryptocurrency mining malware that were more profitable for crook

The vulnerability CVE-2017-0199 was heavily used in phishing campaigns; Recorded Future linked it to 11 distinct strain of malware during 2017. The second most frequently used vulnerability, CVE-2016-0189, was associated with

The researchers also investigated how the malware exploited the flaws and how

2017 vulnerabilities. It was quite easy to find high, and low-quality exploit kit in the

<u>Dark web</u> forums and <u>marketplaces</u>, with prices ranging from \$80 per day for

services to \$25,000 for full source-code access.

In November 2017, we observed Stegano (Astrum) exploit kit offered for unlimited usage at rates of \$2,000 per day or \$15,000 per month (Image 6). Stegano leveraged It is also interesting to note that Exploit builders for Microsoft Office vulnerability

Now that we know which were the most exploited vulnerabilities in 2017 let's adopt all necessary countermeasures to prevent further attacks in the incor References

CVE-2017-0199 ranged from \$400 to \$800 in 2017. Purchasing such an exploit builder could support the creation of a payload for a phishing attack.

https://go.recordedfuture.com/hubfs/reports/cta-2018-0327.pdf https://securityaffairs.co/wordpress/62028/cyber-crime/powerpoint-slide-show-

 $\underline{\text{http://securityaffairs.co/wordpress/57947/hacking/microsoft-patch-tuesday.html}}$

https://securityaffairs.co/wordpress/57985/cyber-crime/cve-2017-0199-finspyspyware.html https://securityaffairs.co/wordpress/58692/malware/ta459-apt-targets-financial-

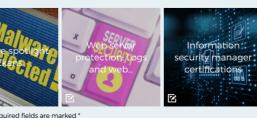
https://securityaffairs.co/wordpress/57408/cyber-crime/cve-2017-0022-flawadgholas.html

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