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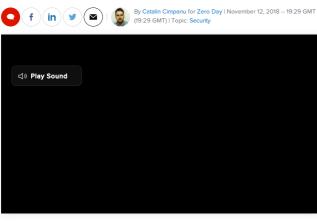
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## Internet Explorer scripting engine becomes North Korean APT's favorite target in 2018

North Korean hacking group focuses attacks on aging and soon-to-be-deprecated technology. MORE FROM CATALIN CIMPANU



The group's name is DarkHotel, a cyber-espionage group that McAfee and many other cybersecurity firms have already linked to the Pyongyang regime.

Internet Explorer's scripting engine was the favorite target of a North Korean cyber-espionage

The group has been active since 2007, but it was publicly exposed Microsoft shares nightmare in 2014 when Kaspersky published a now-infamous report detailing

WiFi networks of hundreds of hotels in order to infect high-profile quests with malware. Despite being ousted in public reports, DarkHotel didn't stop its attacks, continuing to target victims --and most recently political figures in 2016 and 2017-- with the same tactic

a complex hacking operation that involved breaching the internal

other older vulnerabilities.

**ZD**Net

But they also ran other operations. In one of them, the group -which in cyber-security circles goes by many different names such as APT-C-06, Dubnium, Fallout Team, Karba, Luder, Nemim, SIG25, and Tapaoux-- also hid malware inside a copy of North Korea's

tivirus sent to foreign researchers for study.

DARKHOTEL HACKERS HAD A FIXATION WITH INTERNET EXPLORER But in 2018, the group has been especially active and has been seen numerous times targeting the same technology --Internet Explorer's VBScript scripting engine.

## This year, researchers say DarkHotel hackers found and exploited a

first IE zero-day (CVE-2018-8174) in April, and then a second (CVE-2018-8373) in August. Microsoft patched both, in May and September, respectively

But according to a new report published today, researchers at Qihoo 360 Core say the group has also created new exploits for two older IE scripting engine vulnerabilities --namely CVE-2017-11869

How to set up secure

Zero-days are hard to discover and even harder to weaponize in usable exploits. Creating new exploits for old bugs isn't a walk in the part, either. We may never know why DarkHotel is expending so many resources into targeting Internet

IE'S VBSCRIPT ENGINE LIVING OUT ITS LAST DAYS Internet Explorer's VBScript scripting engine isn't your top notch Microsoft technology either. It's an ancient piece of code from the early days of Windows and Internet Explorer that has always

## $\label{thm:many pears ago. That's why, in} \begin{picture}(10,0) \put(0,0){\line(1,0){100}} \put(0$ July 2017, Microsoft announced that it was disabling the automatic execution of VBScript code in the latest IE version that was included with the Windows 10 Fall Creators Update, released in the

Microsoft's recent VBScript deprecation announcement.

been plagued by quite a large number of vulnerabilities.

Explorer, but the trend is quite visible for all APT researchers.

That change meant that hackers couldn't use VBScript code to attack users via Internet Explorer in Windows 10. Microsoft also promised patches to disable VBScript code execution in IE versions on

That change stopped many cybercrime operations, but DarkHotel seems to have adapted to

According to reports, DarkHotel apparently opted to use VBScript exploits embedded inside Office documents and did not target Internet Explorer users via the browser directly Instead, DarkHotel sent Word documents to victims, documents in which they loaded a malicious

Based on the current evidence, it appears that in 2018, the group has gone all-in on VBScript exploits before they become totally useless

web page via embeddable IE frames. DarkHotel hackers chose wisely because, for these

witnessed a cyber-espionage group emptying its VBScript arsenal in a desperate attempt to



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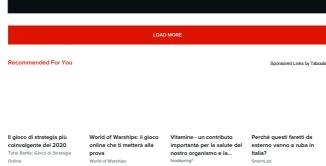
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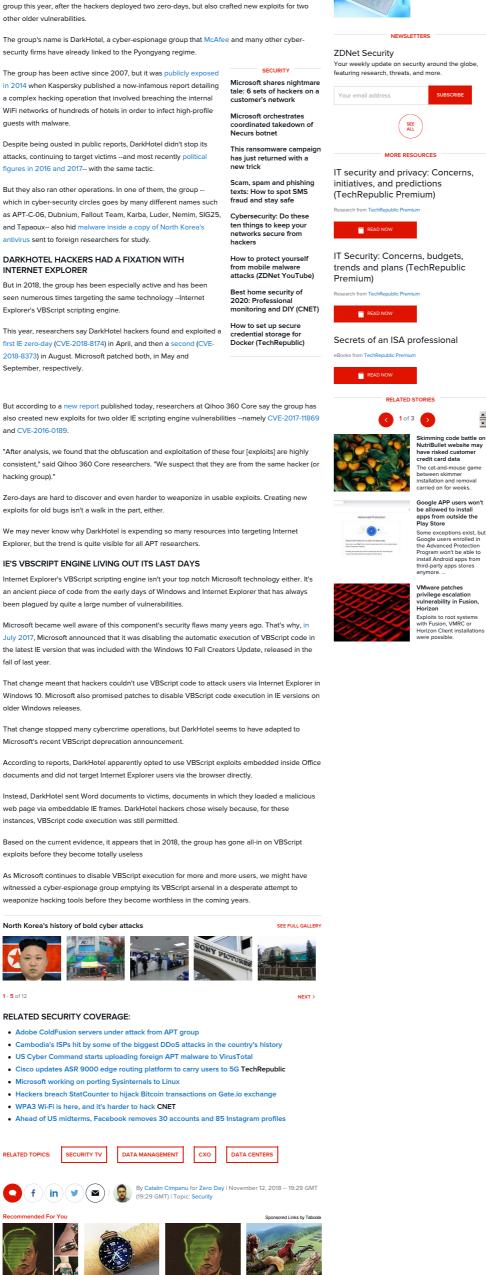
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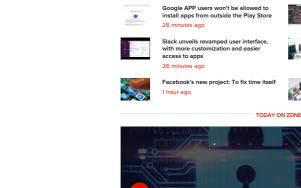
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