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North Korea-linked Dark Hotel APT leverages CVE-2018-8373 exploit

Terrorism

August 19, 2018 By Pierluigi Paga

The North Korea-linked Dark Hotel APT group is leveraging the recently patched CVE-2018-8373 vulnerability in the VBScript engine in attacks in the wild.

The vulnerability affects Internet Explorer 9, 10 and 11, it was first disclosed last month by Trend Micro and affected all supported versions of Windo

victims into viewing a specially crafted website through Internet Explorer. The attacker could also embed an ActiveX control marked 'safe for initialization' in an application or Microsoft Office document that hosts the IE rendering engine.

 $\hbox{``A remote code execution vulnerability exists in the way that the scripting engine handles objects in memory in }$ Internet Explorer. The vulnerability could corrupt memory in such a way that an attacker could execute arbitrary code in the context of the current user." reads the security advisory published by Microsoft.

current user is logged on with administrative user rights, an attacker who successfully exploited the vulnerability could take control of an affected system. An attacker could then install programs; view, change, or delete data; or create new accounts with full user rights."

The analysis of the exploit code for the CVE-2018-8373 revealed it shared the obfuscation technique implemented for another exploit triggering the CVE-2018-8174 flaw.

The CVE-2018-8174 was first discovered by experts at Chinese security company Qihoo 360 and it

The similarities in the exploits suggest that were developed by the same threat actor

"We found this exploit using heuristics, which led to a more in-depth analysis. exploit sample uses the same obfuscation technique as exploits for CVE-2018-8174, a VBScript engine remote code execution vulnerability patched back in May" wrote Trend Micro.

"We suspect that this exploit sample came from the same creator. Our analysis revealed that it used a new use



A similar theory was proposed by experts from Qihoo that collected evidence that linked the use o the CVE-2018-8373 exploit to Dark Hotel.

used to download Double Kill exploit code in previous attacks linked to the North Korea-linked APT

"The 360 Threat Intelligence Center first obtained the IOC address after Trend Micro coding through the big data analysis association

http://windows-updater[.]net/realmuto/wood[.]php?who=1??????

Associated homologous Oday attack sample" states Qihoo

"And found an attack time and trend technology found in the wild "double kill" Oday attack on the same day suspected of using the Oday attack of the office document sample, the domain name embedded in the Offce document sample and the domain name format given by Trend Micro (http://windows updater[.]net/stack/ov[.]php?w= 1\x00who =1)"



In the analysis published in May by Qihoo 360 the researchers associated the CVE-2018-8373 exploit with Dark Hotel based on TTPs associated with the threat actor (e.g. the decryption algorithm that

malware used is identical to Dark Hotel's one) Experts speculated that the CVE-2018-8373 was used in a cyber espionage campaign aimed at China





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(Security Affairs - Dark Hotel, APT)



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Council in London. The passion for writing and a strong belief that security is founded on sharing and awareness led Pierluigi to find the security blog "Security Affairs" recently named a Top National Security Resource for US. Pierluigi is a member of the "The Hacker News" team and he is a writer for some major publications in the field such as Cyber War Zone, ICTTF, Infosec Island. Infosec Institute, The Hacker News Magazine and for many other Security magazines. Author of the Books "The Deep Dark Web" and "Digital Virtual Currency and Bitcoin".

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