



DarkHotel hackers are back targeting Chinese Telecom

March 2, 2016 By Pierluigi Paganini

The DarkHotel APT group is back and it is targeting executives at telecommunications companies in China and North Korea.

According to threat intelligence start-up ThreatBook, the [DarkHotel](#) APT group is targeting executives at telecommunications companies in China and North Korea.

The Darkhotel espionage campaign was first uncovered by security experts at Kaspersky Lab in November 2014. The experts discovered that the hacking campaign was ongoing for at least four years while targeting [selected corporate executives](#) traveling abroad. According to the experts, threat actors behind the Darkhotel campaign aimed to steal sensitive data from executives while they are staying in luxury hotels, the worrying news is that the hacking crew is still active.

The attackers appeared as highly skilled professionals that exfiltrate data of interest with a surgical precision and deleting any trace of their activity. The researchers noticed that the gangs never go after the same target twice. The list of targets includes CEOs, senior vice presidents, top R&D engineers, sales and marketing directors from the USA and Asia traveling for business in the APAC region.

Experts at ThreatBook dubbed the new campaign DarkHotel Operation 8651, the hackers have already compromised at least one organization by using spear phishing emails.

The spear phishing messages came with malicious documents attached, typically a crafted SWF file embedded as a downloadable link in a Word document.

The DarkHotel hackers exploited the Adobe Flash vulnerability [CVE-2015-8651](#), patched by Adobe on Dec. 28 with an out-of-band patch.

The attackers disguise the malicious code a component of the OpenSSL library. Experts noticed that the malware implements a number of anti-detection measures, including anti-sandbox and just-in-time decryption.

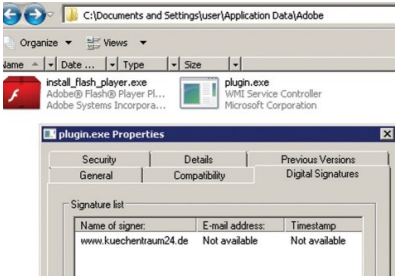
To better understand the DarkHotel group, let me provide you [further details](#) emerged by an [update provided by Kaspersky Lab](#) in August 2015. Kaspersky confirmed that the organizations targeted by the DarkHotel APT in 2015 were located in North Korea, Russia, South Korea, Japan, Bangladesh, Thailand, India, Mozambique and Germany.

Darkhotel relied on phishing emails containing links to Flash Player exploits disclosed following the [data breach](#) suffered by the [Hacking Team](#) surveillance firm.

"...at the beginning of July, it began to distribute what is reported to be a leaked Hacking Team Flash Oday. It looks like the Darkhotel APT may have been using the leaked Hacking Team Flash Oday to target specific systems. We can pivot from "tison360.com" to identify some of this activity." Kaspersky wrote in a [blog post](#).

The DarkHotel APT used obfuscated HTML Application (HTA) files to serve backdoor and downloader code on infected systems since 2010, in August security experts discovered new variants of the malicious HTA files.

"It's somewhat strange to see such heavy reliance on older Windows-specific technology like HTML applications, introduced by Microsoft in 1999," experts noted.



The hackers also improved the obfuscation techniques using more efficient evasion methods, in one case the attackers used a signed downloaders developed to detect known antivirus solutions.

The [spear-phishing](#) emails used by the Darkhotel group in the past contain .rar archives that appeared to include a harmless .jpg file. In reality, the file is a .scr executable that appears like a JPEG using a technique known as right-to-left override (RTLO). When the file is opened, an image is displayed in the Paint application, while the malicious code is executed in the background.

Another novelty for the espionage campaign run by the Darkhotel APT group is the use of stolen [digital certificates](#) that are used to sign malware.

According to the experts at Kaspersky, the APT group appears to be Korean speaker.

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Security Affairs – (Darkhotel, cyber espionage)

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