HOW DATA BREACH VICTIMS ARE BEING HACKED AGAIN? NEW ATTACK VECTOR

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TICK CYBERESPIONAGE GROUP ZEROS IN ON

INCIDENTS MALWARE NEWS VIDEOS

JAPAN

longstanding cyberespionage campaign has been targeting mainly Japanese organizations with its own custom-developed malware (Backdoor.Daserf). The group, known to Symantec as Tick, has maintained a low profile, appearing to be active for at least 10 years prior to discovery

In its most recent campaign, Tick employed spear-phishing emails and compromised a number of Japanese websites in order to infect a new wave of victims. The group is highly selective in its approach and only appears to deploy its full range of tools once it establishes that the compromised organization is an intended target. Tick also uses a range of hacktools to map the

Daserf's main purpose is information stealing and the Trojan is capable of gathering information from infected computers and relaying it back to attacker-controlled servers. Tick's most recent attacks have concentrated on the technology, aquatic engineering, and broadcasting sectors in Japan.

Symantec discovered the most recent wave of Tick attacks in July 2015, when the group compromised three different Japanese websites with a Flash (.swf) exploit to mount watering hole attacks. Visitors to these websites were infected with a downloader known as Godarer (Downloader Gofarer). Gofarer collects information about the compromised computer and then downloads and installs Daserf.

Tick also used spear-phishing emails in these recent attacks. While Symantec did not find the emails themselves, it did identify the use of an exploit designed to take advantage of a vulnerability in Microsoft Office documents (CVE-2014-4114). This was used to distribute malware in addition to the watering hole activity.

Daserf appears to be custom-developed for use in Tick's cyberespionage campaigns. Once installed, it establishes a remote connection to Tick's command and control server, providing the attacker with access to the compromised computer Fig1_35.png

Figure 1. Chain of infection seen in recent Japanese attacks

network and escalate their privilege level. To do this, Tick uses a number of publicly available hacktools such as Mimikatz, GSecdump, and Windows Credential Editor. The tools are downloaded and deployed to the original install directory previously created by the malware. Tick's primary objective appears to be the theft of sensitive information from targeted Japanese organizations. To date, Symantec has observed the group attempting to steal emails and

documents such as PowerPoint presentations. Low-profile threat
The Daserf Trojan employs a number of tactics to avoid detection. Once collected, the stolen

Daserf also uses file and folder names related to legitimate programs often found in Windows environments in order to blend in. Observed folder names include HP, Intel, Adobe, and

perflogs and folders are generally created in either the root drive or the Application Data or Program Files folders. File names used in recent attacks include adobe.exe, adobe_sl.exe, Tick uses compromised web servers to distribute malware and, in some instances, for its

command and control (C&C) infrastructure. However, in most cases, it relies on its own infrastructure for C&C purposes In its most recent campaigns, the group registered the domains used for C&C servers days

after the malware was compiled. For example, one of the variants of Daserf used was compiled on July 8, 2015. This sample was seen contacting the C&C domain www[.]dreamsig[.]com, which was first registered on July 13, 2015, five days after the compilation date. This pattern occurred in multiple Daserf samples Another interesting aspect of the communication between the malware and the C&C

infrastructure is how the malware changes the URL from a randomly chosen variable sele

PREDEFINED LIST FROM DASERF MD5: 765017E16842C9EB6860A7E9F711B0DB

dheyf.asp

ejdhf.asp

qgfhr.asp

Table 1. An example of how a Daserf sample uses a predefined list of URLs embedded in the

Symantec identified multiple C&C domains used by Tick. Unfortunately, Tick frequently used either privacy protection services or domain brokers to mask registration information. These tactics are used to make discovery and attribution more difficult

8d5bf506e55ab736f4c018d15739e352 www.lunwe[.]com

charlie-harada[.]com 122652ca6ef719f8ba2d8d412ea184fe

C&C DOMAIN PARENT HASH

c-saika[.]jp b33f4b8e776b94dc48c234ce9897cf74

htpc[.]jp d3031438d80913f21ec6d3078dc77068

Stolen digital certificates used in selected cases The majority of the malware analyzed was not digitally signed. How

Table 2. Examples of Tick C&C domains and associated MD5 hashes

signed with a stolen digital certificate. It is unclear why the certificate was used so sparingly, since signed malware would receive a greater level of trust and reduce the risk of detection It is possible that the certificate was used against a target that had a secure enviro which may have required binaries to be signed in order to interact with the operating system.

The issuer of the certificate has been informed of its misuse and confirmed that it would be

Fig2_24.png Figure 2. The stolen digital certificate used to sign Tick malware

The use of compromised websites to infect victims results in unintentional infections, making it difficult to identify the motives of the attacker. By searching for evidence of post-infection activity, Symantec identified seven organizations where Tick had mounted persistent post-

kcm-store[.]com

Fig3_20.png The seven organizations therefore appear to be Tick's intended targets. In addition to seeing

post-compromise tools used in these attacks, the length of time the attackers were active on the networks provided additional evidence that these were high-value targets. The longest time

compromise attacks. These organizations were primarily large Japanese technology,

Tick was active in a victim's environment was 18 months. The average timeframe was five months and the number of infected hosts in a victim's network ranged from 3 to 15 systems

ed websites being added to the mix as a more recent attack vector Tick appears to be a well-organized group, with the funding and capability to develop and update its malware. It has the ability to compromise legitimate infrastructure to use for malware distribution and has access to stolen digital certificates to sign its malware when needed. Tick

Tick has left a trail of evidence indicating that its activity began as early as 2006. In earlier attacks, the group used malicious Microsoft Word documents to infect victims, with

primarily uses purchased infrastructure for its C&C servers and has been able to stay off the Tick exhibits all the hallmarks of an advanced cyberespionage group. The long lifespan of the group, as well as the consistent targeted attacks against specific industries, support this theory. The individuals or organization behind Tick's operations has an interest in Japanese technology along with Japanese media and broadcasting organizations. While Tick's tactics may change over time, the group's history indicates that its focus will continue to be a narrow

range of targets, mainly in Japan



GET YOUR BOUNTY







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MEET SWISS ARMY KNIFE OF PENETRATION TESTING



RUN PROGRAM WITHOUT ADMINISTRATOR PRIVILEGES IN HOW TO USE FACEBOOK FOR



GET XSS BUG BOUNTY WITH XSSFINDER SEE HOW TO SEARCH USERNAME, PASSWORDS, CONFIGURATION FILES, EMAILS, OPEN CAMERAS ON GOOGLE



SCAN WHOLE INTERNET DOMAINS, WITH SPEED OF 3,50,000 DOMAINS PER SECOND

NEW LINUX FOR CYBER FORENSICS AND INVESTIGATORS - CSI LINUX



ATTACK ANY IP ADDRESS, WITH DDOS BOTNET SIMULATOR



COVID-19 TRACKING APP INSTALLS RANSOMWARE ON YOUR SMARTPHONE; BE CAREFUL

PHOTOS OF YOUR GIRLFRIEND OR FRIEND'S GIRLFRIEND



THESE MEDICAL DEVICES COULD BE EASILY ENCRYPTED WITH WANNACRY RANSOMWARE EASILY REMOVE XHELPER
MALWARE FROM YOUR ANDROID
DEVICE



NEW RANSOMWARE DEMANDS PHOTOS OF TITS & PRIVATE PARTS TO UNLOCK YOUR DATA





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