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A Touch of Artistry: Poseidon's APT Boutique

Feb 9, 2016 Oleg Gorobets Featured Post, Technology, Threats No comments

Targeted attacks are visibly commoditizing, choosing cost efficiency over sophistication. If a□ combination of social engineering, tweaks to widely-available malware and legit apps can do the trick, why bother to create something original and exquisite?

Nevertheless there remain true adepts – those who perceive every cyberespionage operation as another stage in the quest for ultimate perfection. And, given the long and successful careers of some, they have good reason to stick with their own way of working.



Artistic Blackmailers

The Poseidon cyberespionage group very much fits this description. The group has been using state-lof-the-art custom malware since 2005, at least, and there's data to suggest that some could have been prototyped as early as 2001. Different components of their toolsets appeared regularly on the radar of security companies, but were not recognized as part of a bigger picture. Throughout this period, Poseidon were meticulously tailoring their toolsets to ensure easy and silent entry and efficient data acquisition, in line with their patrons' requirements. This perfectionist, artisan approach, together with the group's known fascination with Greek mythology and their one-time abuse of a maritime satellite communications system, earned their operations the nickname 'Poseidon's APT Boutique'.

A Touch of Artistry: Poseidon's APT Boutique #PoseidonAPT



Setting aside their artistic finesse, some aspects of their 'business model' looked distinctly ugly.
Masquerading behind a front-end 'security company', they used harvested secrets to blackmail targets into accepting them as IT security contractors. Meanwhile, they either retained an illegitimate presence within the 'secured' system or, having completed the task agreed, quietly resumed their presence within the perimeter. They were known to refer to one element their business cycle as

'financial forcasting', giving an idea of the long-term benefit they anticipated from a prolonged systems presence. With their focus on Windows-based systems and extremely developed skills, they could theoretically embed themselves within the victim's IT system for years without being detected.



Great Art Demands Sacrifices□

The Poseidon's targets have tended to be large Enterprises, mainly centering round Brazil, the US, France, Kazakhstan and Russia. There appears an interesting language limitation to English and Brazilian Portuguese based systems: even in countries with different national languages, the IT networks of multi-national corporations having these locales and/or keyboard layouts were preferred as targets. Their sphere of interest has encompassed Energy and Utilities, Manufacturing – and also Media and PR. The latter two could obviously provide attackers with plenty of information for use as ammunition against additional future targets.

The Poseidon's targets have tended to be large Enterprises #PoseidonAPT

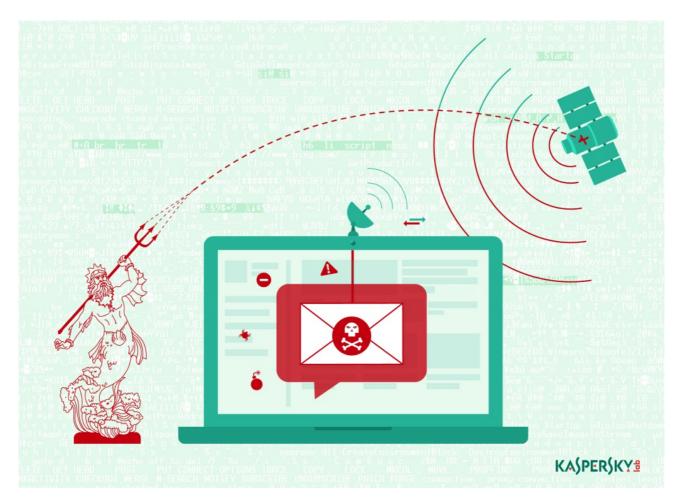


Tools of the Artisan's Trade

To many an artisan eye, elegance and simplicity go hand by hand. The Poseidon group seem to embrace this principle. For initial penetration, they use no exploits; only well-crafted spear-phishing

emails carrying DOC/RTF files with encapsulated executables – an uncommon approach nowadays.
To fool existing security solutions, they often sign these binaries with real certificates – issued for fakel companies or even belonging to genuine well-respected and trusted organizations. Having successfully infecting their first victims, the collection of extensive data about the attacked infrastructure begins. Using this information, and ace Windows admin skills, the attackers can then move laterally without triggering any alarms, their next objective being to obtain Domain Admin rights. With this level of power, they can then purge the majority of their own tools from the network, retaining only those essential to their ongoing presence and data exfiltration.

As already mentioned, in one series of operations Poseidon used ships' satellite communication systems as hiding places for their Command & Control (C&C) servers, a similar mechanism to that used by the Turla actor. No attempts to repeat this feat have, however, been recorded.



What Can Be Done?

Despite all Poseidon's attempts to disguise and disperse the evidence, experts from Kaspersky Lab's Global Research and Analysis Team have succeeded in piecing all the disparate pieces of data into a complete picture. Still, the Poseidon group remains active, which brings us to the question of adequate defense.

Of course protecting endpoints is a must – which, as the well-known ASD Mitigation Strategies suggest, should comprise non-signature detection mechanisms, such as Heuristics and Behavioral Detection Algorithms. Possessing all these, Kaspersky Endpoint Security for Business is powered by the same superior Security Intelligence that enabled our experts to piece together the previously insoluble Poseidon puzzle. Kaspersky Endpoint Security for Business also provides further proactive

security layers – including Security Controls, HIPS and a built-in Application Firewall – all fed by real-time global intelligence from the Kaspersky Security Network. These layers erect further barriers in the path of malware, from blocking launch attempts to preventing access to critical system elements and communications with C&C.

The extent of information harvesting by the Poseidon group also highlights the benefits of Data Encryption throughout the whole corporate infrastructure, enforced by appropriate policies. The Advanced tier of Kaspersky Endpoint Security for Business includes easy-to-use Encryption Technology, managed through the same single-pane-of-glass console of Kaspersky Security Center as all platform elements. Of course, with spear-phishing as the penetration method of choice for the majority of Targated Attack groups, scanning email streams is also absolutely crucial nowadays. Kaspersky Security for Mail Servers erects another powerful defensive wall in the attacker's way.

All in all, Kaspersky Lab's portfolio of solutions helps implement 19 of ASD's 35 Mitigation Strategies, including 3 of the 'top 4' which between them prevent 85% Targeted Attack-related incidents. But even if you use another vendor's solutions to protect your infrastructure, we can help. Kaspersky Lab's achievements as APT discoverers demonstrate that the presence even of such a stealthy and capable APT actor as Poseidon can be uncovered; that's what our Targeted Attack Discovery service is for [1].

Secrets are worth most when they're sold red hot. Perhaps it's time to prevent your organization from getting burned.

For more about the Poseidon's APT Boutique, read the following blogpost on Securelist.

Kaspersky Lab products detect Poseidon malware under the following verdicts:

Backdoor.Win32.Nhopro

HEUR:Backdoor.Win32.Nhopro.gen

HEUR:Hacktool.Win32.Nhopro.gen

[1] Available only in a limited number of regions. To find out whether this is available in your region, please contact Kaspersky Lab manager.



About Oleg Gorobets



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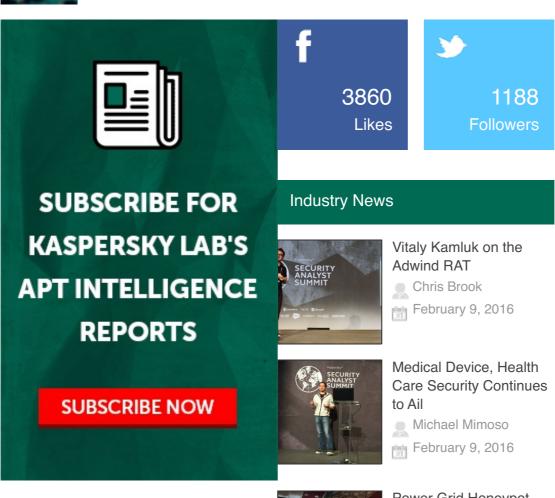


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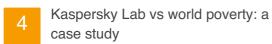
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