

Raytheon

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Wild Neutron

For
SIRIUS Task Order PIQUE

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1.0 (U) Analysis Summary

(S//NF) The following report details tools and techniques used by the threat actor known as “Wild Neutron.” This actor has been active since 2001 with its latest attacks occurring in 2015 using a stolen code signing certificate belong to the company Acer as well as using an unknown Flash Player Exploit.

(S//NF) In the past the actor has used scripts injected into forums to redirect visitors to another website. He has also used a Mac OS X backdoor known as OSX/Pintsize that has been recompiled for Win32 and is still being used.

(S//NF) Wild Neutron encrypts all C&C communication using a custom protocol. The actor is also known to use multiple evasion techniques designed to detect or timeout sandboxes and emulation engines. No further details on these techniques were given in the provided report.

(S//NF) In the actor’s most recent attacks the infection vector is still unknown besides that it is an unknown Flash Player Exploit. The main dropper to this infection is simple as it simply decrypts the backdoor executable that has been stored as a resource and encrypted with a simple XOR. After executing, the main backdoor is securely deleted. The C&C URL is interestingly doubly encrypted and stored in the registry. The backdoor is typical yet fully functional to include deleting autorun values, shredding files, downloading Internet files, installing malware plugins, and updating itself. This backdoor also has the ability to recover from a C&C shutdown using a dynamically generated domain name tied to each victim.

(S//NF) In conclusion, the report given focused on the actor Wild Neutron, his past techniques, and his latest known attack vector. No new techniques worthy of a PoC were presented.

2.0 (U) Description of the Technique

(S//NF) No techniques are recommended for PoC development.

3.0 (U) Identification of Affected Applications

(U) Windows

4.0 (U) Related Techniques

(S//NF) RAT, Adobe Flash

5.0 (U) Configurable Parameters

(U) None

6.0 (U) Exploitation Method and Vectors

(S//NF) This report states that Wild Neutron has infected forums with scripts in the past infecting visitors by redirecting them to a malicious website.

7.0 (U) Caveats

(U) None.

8.0 (U) Risks

(S//NF) Not applicable because we do not recommend any techniques for PoC development.

9.0 (U) Recommendations

(S//NF) No PoCs recommended.