Fileless Malware Campaigns Tied to Same Attacker



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Two recent fileless malware campaigns targeting financial institutions, government agencies and other enterprises have been linked to the same attack group.

The campaigns, disclosed by Kaspersky Lab and Cisco's Talos research outfit in the last five weeks, made extensive use of fileless malware and known penetration testing tools and utilities to spy on organizations and move data and money off of networks.

Researchers at Israeli security company Morphisec said today that in investigating a recert campaign, they discovered the farmenoni used to deliver the DISF Power three Messenger antacks reported by Close and a smithal attacks incovered by Kaspeny Light bett used Meterporter and other known utilities against 140 banks worldwide. The Meterporter statics, Kaspeny Lip also accide be connected to the COMM and Calebany sports, which were responsible for \$1 billion in their tion financial installations, according to a 2015 report. Firefly call tid ting open PIV and said kits was beinging installation invended in SEC fillings.

The framework has since disappeared online following a brief interaction with the attacker and Morphisce researchers. Orni Dotan of Morphisce said the researchers attempted to build some trust with the attacker and trisd to communicate in Russian before he disabled the command and control infrastructure and removed the framework.

"There is a high level of probability that we have attributed a whole bunch of attacks across the globe to one actor and this platform." Dotan said. Through this Interaction() we had with then, they took it down and quite likely disrupted any ongoing attacks. Now they are going to have to rebuild it and do this suff over from scratch."

Morphise caid in an analysis published today that on March 8 during an investigation into a attack against several high-profile enterprises, it found the framework used to deliver a number of variations of attacks, all of which leave no artifacts on the compromised machines. These effacts either match, or are similar to, others used in the attacks described by (Narpesi) and Cisco, 104 yeard.

The attacks begin with phishing emails targeting organizations using a Word document that is protected, which urges the user to enable the content. By doing so, the victim executes a macro embedded in the document that executes a powerShell command using Windows Management Instrumentation, infrastructure used to automate tasks or remote machines.

A PowerShell script called Updater pct is enabled that opens a backdoor and grabs commands from the command and control server. It also lowers security restrictions around miscos so that more marco-based occuments can be early and will seconds without user interaction. Morphises call it found additional scripts on the command and control server that securcial windust, which is used to extract passwords and habets from memory. LaZagna, a open source application used to retrieve credentials stored on a local hard drive, and DNS Messenger.

Dotan said Morphisec was on the command and control server for three days and was able fingerprint a number of artifacts on the framework, encryption routines and IP addresses that led them to conclude the likely connection with other similar attacks.

"As some point toward the end of our investigation the attacker contacted our people."

"At some point toward the end of our investigation the attacker contacted our people through the heldeck. We had a brid interaction where on folks tired to be we the hacker to reveal part of his identity." Dotan said. "At some point, we tried to talk to them in Russian, but at that point, he acked for English, please. He then started to shull down the command and control server and completed yook down the platform."

Dotan said that Morphisec has made all of the artifacts it recovered public but has shared them with Israel's cybersecurity administration.

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