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MegaCortex Ransomware Spotted Attacking Enterprise Networks

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detects this as RANSOM.WIN32.CORTEX.SM) has been reportedly deployed against large corporate networks and workstations in the United States, Canada and parts of Europe. Cybersecurity firm Sophos first reported a sharp spike in MegaCortex activity last Friday noting that 47 attacks were stopped within 48 hours, which is two-thirds of all known incidents involving this ransomware. This recent surge isn't the earliest encounter with the ransomware — the first known sample

How MegaCortex works

At least one victim reported that the attack originated from compromised domain controllers inside the enterprise network, but it isn't clear how the ransomware distributors gained access to the networks.

was uploaded on January in the public sharing site VirusTotal.

After gaining access to the domain controller, the attackers configured it to distribute a batch file, a renamed PsExec, and winnit.exe, which is one of the main executables of the malware, to the rest of the computers on the network. After this step, they run the batch file remotely. This file will terminate Windows processes as well as stop and disable services that will interfere with the ransomware's routines.

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during a specific time frame and with specific Base64 argument. If executed properly, the malware will search files for encryption and drop a ransom note. It will also extract a randomly-named DLL and execute it with *rundll32.exe*. This DLL is the component that will encrypt the computer's files. It will first check if the file is accessible. If not, it will simply log the files. If it is accessible, the file will be encrypted, the child DLL process will be terminated after a set number of file encryption attempts, and the cycle will start again.

When encrypting the victim's files, the ransomware will append the extension <code>.aes128ctr</code>. According to Sophos, the ransomware will also generate a file with a <code>.tsv</code> extension and drop it in the hard drive. The MegaCortex actors' ransom note instructs the users to submit this file to them because it contains encrypted session keys needed for decryption. The ransom note itself is a <code>.txt</code> file that doesn't ask for the usual cryptocurrency payment, instead it demands that victims buy the actor's software.

In addition to the main payload, the malware also drops secondary components that security researchers have identified as the Rietspoof malware, a delivery system used to drop multiple payloads onto a device.

Defending against ransomware

Users and businesses are recommended to adopt best practices to defend against ransomware: Regularly back up files, keep the system and applications updated, enforce the principle of least privilege, and implement defense in depth — arraying security at each layer of a company's online perimeters, from gateways,

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