

Malware

Date: 28th April 2024 | Severity: High

Summary

As malicious actors across the threat landscape continue to pursue more efficient and effective ways of compromising target networks, all while remaining undetected by security measures, it is unsurprising to see an increase in the use of remote access trojans (RATs) in recent years. RATs typically operate stealthily, evading security tools while offering threat actors remote control over infected devices, allowing attackers to execute a wide range of malicious activities like data theft or installing additional malware.

Attack Vectors

The worm adds to the connected flash drive a Windows shortcut file with the drive's name, and three files for DLL sideloading, namely a legitimate executable, a malicious library, and a binary blob within the drive's RECYCLER.BIN hidden folder. It also moves the drive's contents to a new directory. Then the user clicks on the shortcut file, the malware opens a new window displaying the drive's contents, and then copies itself to the system and creates a new registry key for persistence. Next, it re-executes itself from the system, where it checks every 30 seconds for connected USB drives to infect.

INDICATOR TYPE	INDICATORS
IOCs	 45.142.166[.]112 - IP - PlugX C2 Endpoint / moderate – high 103.56.53[.]46 - IP - PlugX C2 Endpoint / moderate – high Mozilla/5.0 (Windows NT 10.0;Win64;x64)AppleWebKit/537.36 - User Agent - PlugX User Agent / moderate – high /8891431c - URI - PlugX URI / moderate-high /ba12b866 - URI - PlugX URI / moderate – high
File Hash	 432a07eb49473fa8c71d50ccaf2bc980b692d458ec4aaedd52d739cb377f3428 e8f55d0f327fd1d5f26428b890ef7fe878e135d494acda24ef01c695a2e9136d 3a53bd36b24bc40bdce289d26f1b6965c0a5e71f26b05d19c7aa73d9e3cfa6ff 2304891f176a92c62f43d9fd30cae943f1521394dce792c6de0e097d10103d45 8b8adc6c14ed3bbeacd9f39c4d1380835eaf090090f6f826341a018d6b2ad450 6bb959c33fdfc0086ac48586a73273a0a1331f1c4f0053ef021eebe7f377a292 B9f3cf9d63d2e3ce1821f2e3eb5acd6e374ea801f9c212eebfa734bd649bec7a

Indicator of compromise

Recommendation

- Submit the File Hash to the Antivirus team to update their database with the file hashes.
- Submit the Domains to the Network team to update their database with the Domains.
- Secure RDP ports to prevent threat actors from abusing and leveraging RDP tools.
- Prioritize remediating known exploited vulnerabilities.
- Implement EDR solutions to disrupt threat actor memory allocation techniques.
- Make regular backups of important and critical files.
- Avoid browsing unsafe websites, clicking on suspicious links, or opening unknown email attachments.
- Update and Patch operating system, applications, and security softwares with the latest available and validated patches.

NOTE: The recommended settings/controls should be implemented after due shall be tested on Pre-Prod or test environment before implementing. diligence and impact analysis.

Reference Links

- <u>https://darktrace.com/blog/plugx-malware-a-rats-race-to-adapt-and-survive</u>
- https://blog.sekoia.io/unplugging-plugx-sinkholing-the-plugx-usb-worm-botnet/