

tccontre / Reg-Restore-Persistence-Mole

Public

Notifications

Fork 16

Star 49

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

main

Go to file

<> Code

RegReeper

images

README.md

RegReeper.sln

README

RegReeper

RegReeper.exe

REGREEPER

Reg Restore Evasion and Persistence

<-- P.O.C. Coded by. | Br3akpoint - teoderick.contreras | -->

Reg Restore Evasion and Persistence

About

a short C code POC to gain persistence and evade sysmon event code registry (creation, update and deletion) REG_NOTIFY_CLASS Registry Callback of sysmon driver filter. RegSaveKeyExW() and RegRestoreKeyW() API which is not included in monitoring. This POC will use

Readme

Activity

49 stars

3 watching

16 forks

Report repository

Releases 1

RegReeper.exe Release ...

on Aug 23, 2023

Latest

Packages

No packages published

This short C code presents a Proof of Concept (POC) designed to achieve persistence and evade Sysmon event monitoring for registry actions such as key creation, update, and deletion, specifically targeting the REG_NOTIFY_CLASS Registry Callback in the Sysmon driver filter. To bypass monitoring, the POC leverages the RegSaveKeyExW() and RegRestoreKeyW() APIs, which are not included (as of writing) in sysmon monitoring or in REG_NOTIFY_CLASS type of registry callback of Sysmon driver filter.

By utilizing these APIs, the POC can create backups of registry keys using RegSaveKeyExW() and later restore them using RegRestoreKeyW(), effectively evading detection by Sysmon. It's essential to recognize that this POC serves only as a demonstration of a potential technique for achieving persistence and evading monitoring and should be used solely for educational or research purposes, refraining from any malicious intent or illegal activities.

POC GOAL

modify the existing registry entry in

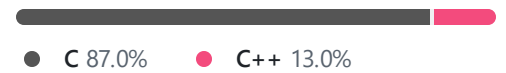
`HKCU\Software\Microsoft\Windows\CurrentVersion\Run` using RegSave and Regstore API to gain persistence in targeted host.

notes: this poc needs an admin privileges to execute properly

POC Use Case

1. Adjust Token Privilege `SeBackupPrivilege` to be able to save
`HKCU\Software\Microsoft\Windows\CurrentVersion\Run` registry hive.
2. saved the registry hive to "save_reg.hive"
3. Parse registry hive structure (`save_reg.hive`) to look for registry value key data string to be modify.

Languages



4. compute the length of the registry value key data string during parsing, then used that length to generate random file name.
5. dropped a copy of itself in `c:\users\public\{random_filename}.exe`
6. create a copy of `save_reg.hive` -> `mod_save_reg.hive`
7. modify the current registry value key data string of `HKCU\\Software\\Microsoft\\Windows\\CurrentVersion\\Run` with the file path of its file copy.
8. Adjust Token Privilege to `SeRestorePrivilege`
9. trigger RegRestore via `RegRestoreKeyW()` API.

HOW

- clone the project and build it using Visual Studio (tested with VS 2019) or
- grab the compiled x64 PE file in released build (RegReeper.7z) password: infected

POC Example



[Terms](#) [Privacy](#) [Security](#) [Status](#) [Docs](#) [Contact](#) [Manage cookies](#) [Do not share my personal information](#)

 © 2024 GitHub, Inc.