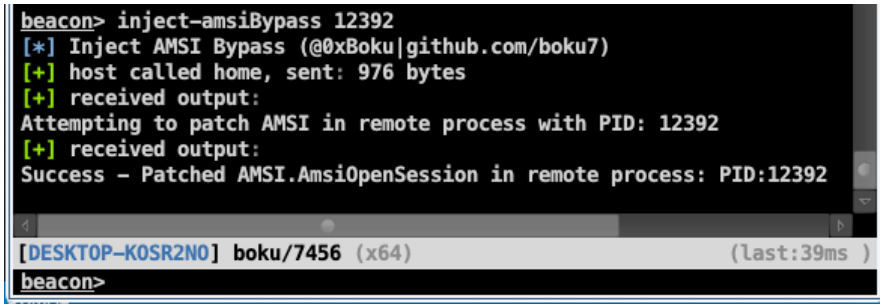
images
LICENSE.md
README.md
beacon.h
inject-amsiBypass.c
inject-amsiBypass.cna

README MIT license

Cobalt Strike BOF - Inject AMSI Bypass

Cobalt Strike Beacon Object File (BOF) that bypasses AMSI in a remote process with code injection.

Running inject-amsiBypass BOF from CobaltStrike



What does this do?

1. Use supplied PID argument to get a handle on the remote process

```
hProc = KERNEL32$OpenProcess(PROCESS_VM_OPERATI(
```

2. Load AMSI.DLL into beacons memory and get the address of AMSI.AmsiOpenSession

```
hProc = KERNEL32$OpenProcess(PROCESS_VM_OPERATI(
```

- Both beacon and the target process will both have the same address for the symbol.
- If AMSI.DLL does not exist in the remote process, running this may crash the target process.

3. Write the AMSI bypass to the remote processes memory

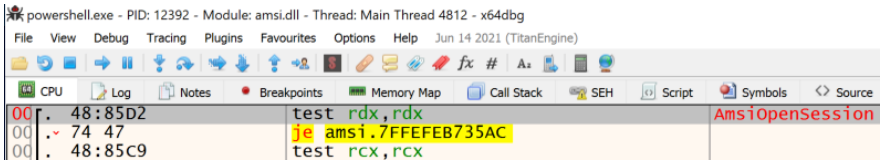
```
unsigned char amsibypass[] = { 0x48, 0x31, 0xC0
BOOL success = KERNEL32$WriteProcessMemory(hPro(
```

Method = AMSI.AmsiOpenSession

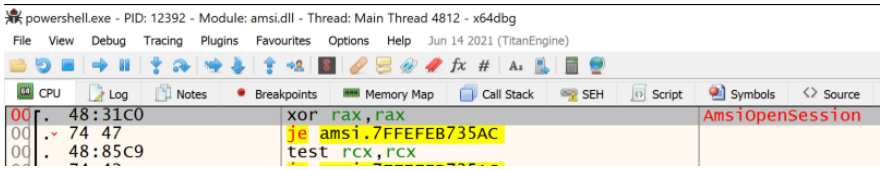
- Uses the AMSI bypass technique taught in Offensive Security's PEN-300/OSEP (Evasion Techniques and Breaching Defenses) course.
  - https://www.offensive-security.com/pen300-osep/

Proof of Concept Demo Screenshots

Before - Powershell.exe AMSI.AmsiOpenSession



After - Powershell.exe AMSI.AmsiOpenSession



Compile with x64 MinGW:

```
x86_64-w64-mingw32-gcc -c inject-amsiBypass.c -(
```

Run from Cobalt Strike Beacon Console

```
beacon> inject-amsiBypass <PID>
```

- Make sure to load the inject-amsiBypass.cna script into Cobalt Strikes Script Manager

To Do List

- Check that AMSI.DLL exists in remote process before injection
- Add other AMSI bypasses to inject
- Support x86

Credits / References

Raphael Mudge - Beacon Object Files - Luser Demo

- https://www.youtube.com/watch?v=gfYswA_Ronw

Cobalt Strike - Beacon Object Files

- https://www.cobaltstrike.com/help-beacon-object-files

BOF Code References

ajpc500/BOFs

- https://github.com/ajpc500/BOFs/

trustedsec/CS-Situational-Awareness-BOF

- https://github.com/trustedsec/CS-Situational-Awareness-BOF

Sektor7 Malware Dev Essentials course

- https://institute.sektor7.net/red-team-operator-malware-development-essentials