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Shellcraft generation fails with strings that contains end of multiline comment #1427

🔒 Closed

disconnect3d opened this issue on Feb 8, 2020 · 1 comment

Labels bug shellcodeMilestone 🏠 4.2.0

disconnect3d commented on Feb 8, 2020

Contributor

PoC||GTFO:

```
In [161]: print(shellcraft.amd64.write(0, '/', 2))
/* write(fd=0, buf="/", n=2) */
/* push '\x00' */
push 0x1010101 ^ 0x2f2a
xor dword ptr [rsp], 0x1010101
mov rsi, rsp
xor edi, edi /* 0 */
push 2
pop rdx
/* call write() */
push SYS_write /* 1 */
pop rax
syscall

In [162]: asm(shellcraft.amd64.write(0, '/', 2))
[DEBUG] cpp -C -nostdinc -undef -P -I/usr/local/lib/python2.7/dist-packages/pwnlib/data/includes /dev/stdin
[ERROR] There was an error running ['cpp', '-C', '-nostdinc', '-undef', '-P', '-I/usr/local/lib/python2.7/dist-packages/pwnlib/data/includes', '/dev/stdin']:
It had this on stdout:
/dev/stdin:2:27: warning: missing terminating ' character
/dev/stdin:3:20: warning: missing terminating ' character
```

Bug is in `/* write(fd=0, buf="/", n=2) */`, the input string ends the multi-line comment so `cpp` fails to compile our assembly.

This happens for me on 3.12.0:

```
In [168]: pwnlib.__version__
Out[168]: '3.12.0'
```

But was also reproduced on 4.2.0dev (commit id: [ed3c30a](#)).

✉ zachriggle commented on Feb 8, 2020Member

Good catch! I'm not sure how to handle this in a general case except perhaps by using `//` comments instead?

On Sat, Feb 8, 2020 at 5:06 PM Disconnect3d ***@***.***> wrote:
PoC||GTFO:

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).

—

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<[#1427?](#)


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Zach Riggle

 Arusekk added the **shellcode** label on Feb 9, 2020

 Arusekk added the **bug** label on Apr 23, 2020

 Arusekk added this to the **4.2.0** milestone on Jun 3, 2020

 Arusekk mentioned this issue on Nov 29, 2020

Fix pwntools shellcraft SSTI vulnerability #1732

 Merged

 Arusekk closed this as completed in [138188e](#) on Nov 29, 2020

Assignees

No one assigned

Labels

bug **shellcode**

Projects

None yet

Milestone

4.2.0

Development

No branches or pull requests

3 participants

