

Instantly share code, notes, and snippets.

ZjW1nd / INFO.md Secret



Created 5 months ago

<> **Code** Revisions 1

CVE-2025-57632

INFO.md

## Vulnerability type

---

Buffer overflow(OOBW)

## Vendor of the products

---

<https://github.com/sahlberg/libsmb2>

## Affected product/code base

---

- product: libsmb2
- version: all versions before fix (1.0-6.2)

## Has vendor confirmed or acknowledged the vulnerability?

---

yes

## Attack Type

---

Remote

## Impact

---

Code Execution  
Denial of Service  
Escalation of Privileges

## Affected components

---

include/libsmb2-private.h: fixed SMB2\_MAX\_VECTORS=256  
lib/init.c: smb2\_add\_iovector() lacks bounds checking  
lib/socket.c: chained PDU parsing lacks total vector/chain limits; OPLOCK\_BREAK path bypasses message ID validation

## Attack vector

---

A malicious SMB server returns crafted chained SMB2 responses to a libsmb2 client; no credentials required. Typically triggered when the client connects to a malicious server

## Suggested description of the vulnerability for use in the CVE

---

When processing SMB2 chained PDUs (NextCommand), libsmb2 repeatedly calls smb2\_add\_iovector() to append to a fixed-size iovec array without checking the upper bound of v->niov (SMB2\_MAX\_VECTORS=256). An attacker can craft responses with many chained PDUs to overflow v->niov and perform heap out-of-bounds writes, causing memory corruption, crashes, and potentially arbitrary code execution. The SMB2\_OPLOCK\_BREAK path bypasses message ID validation, increasing exploitability.

## Discoverer(s)/Credits

---

JianLiang Zhao

## References

---

[sahlberg/libsmb2#431](https://github.com/sahlberg/libsmb2/pull/431)

<https://github.com/sahlberg/libsmb2/pull/431/commits/5e75eebf922b338cdb548d60cffb3b997d2a12e8>

<https://github.com/sahlberg/libsmb2/pull/431/commits/883e787426df52dd19206234d7278d46ac997668>

<https://zjw1nd.github.io/2025/08/26/Vibe-SecurityReserch-%E6%88%91%E6%98%AF%E5%A6%82%E4%BD%95%E7%94%A8ai%E5%8F%91%E7%8E%B0day%E5%B9%B6%E6%92%B0%E5%86%99poc%E7%9A%84/>