possible, including putting the program into an infinite loop.

Buffer overflows often can be used to execute arbitrary code, which is usually outside the scope of a program's implicit security policy. Besides important user data, heap-based overflows can be used to overwrite function pointers that may be living in memory, pointing it to the attacker's code. Even in applications that do not explicitly use function pointers, the run-

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time will usually leave many in memory. For example, object methods in C++ are generally implemented using function pointers. Even in C programs, there is often a global offset table used by the underlying runtime.

When the consequence is arbitrary code execution, this can often be used to subvert any other security service.

Occurrences

c alloc.c L244 **c** mbyte.c L1788

References

CWE-122: Heap-based Buffer Overflow

CVE

Vulnerability Type

Severity

Affected Version

Visibility







Bram Moolenaar maintainer

We have contacted a member of the vim team and are waiting to hear back a year ago

Bram Moolenaar validated this vulnerability a year ago

geeknik has been awarded the disclosure bounty 🗸

Bram Moolenaar a year ago

Fix is patch 8.2.3409

Bram Moolenaar marked this as fixed with commit 65b605 a year ago

Bram Moolenaar has been awarded the fix bounty 🗸

This vulnerability will not receive a CVE 🗶

geeknik a year ago

Researcher

 $Confirming\ patch\ 8.2.3409\ fixes\ the\ report\ issue.\ Nothing\ to\ follow-up\ with\ this\ time.\ Thank\ you.$

Jamie Slome a year ago

Admin

CVE published! 👭

Thanks for the great research all!

Ref > CVE-2021-3778

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