



# CVE-2021-4187

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

|                        |  |
|------------------------|--|
| <b>CVE</b>             | CVE-2021-4187                                |
| <b>State</b>           | PUBLIC                                       |
| <b>Assigner</b>        | security@huntr.dev                           |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback |
| <b>Published</b>       | 2021-12-29 17:15:00 UTC                      |
| <b>Updated</b>         | 2023-11-07 03:40:00 UTC                      |
| <b>Description</b>     | vim is vulnerable to Use After Free          |

## Risk And Classification

**Problem Types:** CWE-416

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                | Product                  | Version | Update                   | Edition | Language |
|------------------|-----------------------|--------------------------|---------|--------------------------|---------|----------|
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | All     | All                      | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | All                      | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2020-001 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-001 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-002 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-003 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-004 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-005 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-006 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-007 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2021-008 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2022-001 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2022-002 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2022-003 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Macos</a>    | 10.15.7 | security_update_2022-004 | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Mac Os X</a> | 10.15.7 | All                      | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2020-001 | All     | All      |

|                  |                               |                          |         |                          |     |     |
|------------------|-------------------------------|--------------------------|---------|--------------------------|-----|-----|
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-001 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-002 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-003 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-004 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-005 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-006 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-007 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2021-008 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2022-001 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2022-002 | All | All |
| Operating System | <a href="#">Apple</a>         | <a href="#">Mac Os X</a> | 10.15.7 | security_update_2022-003 | All | All |
| Operating System | <a href="#">Fedoraproject</a> | <a href="#">Fedora</a>   | 34      | All                      | All | All |
| Operating System | <a href="#">Fedoraproject</a> | <a href="#">Fedora</a>   | 35      | All                      | All | All |
| Application      | <a href="#">Vim</a>           | <a href="#">Vim</a>      | All     | All                      | All | All |

## References

| Reference   | Source   | Link  | Ta |
|---|----------|---|----|
| [SECURITY] Fedora 35 Update: vim-8.2.4006-1.fc35 - package-announce - Fedora Mailing-Lists          | FEDORA   | <a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a> |    |
| About the security content of macOS Big Sur 11.6.6 - Apple Support                                  | CONFIRM  | <a href="https://support.apple.com">support.apple.com</a>             |    |
| oss-security - Re: 3 new CVE's in vim   | MLIST    | <a href="https://www.openwall.com">www.openwall.com</a>               |    |
| Full Disclosure: APPLE-SA-2022-03-14-4 macOS Monterey 12.3  | FULLDISC | <a href="https://seclists.org">seclists.org</a>                       |    |
| Vim, gVim: Multiple Vulnerabilities (GLSA 202208-32) — Gentoo security                              | GENTOO   | <a href="https://security.gentoo.org">security.gentoo.org</a>         |    |
| patch 8.2.3923: Vim9: double free with split argument list in nested ... - vim/vim@4bf1006 · GitHub | MISC     | <a href="https://github.com">github.com</a>                           |    |
| [SECURITY] Fedora 34 Update: vim-8.2.4068-1.fc34 - package-announce - Fedora Mailing-Lists          |          | <a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a> |    |
| [SECURITY] Fedora 34 Update: vim-8.2.4068-1.fc34 - package-announce - Fedora Mailing-Lists          | FEDORA   | <a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a> |    |
| Full Disclosure: APPLE-SA-2022-05-16-3 macOS Big Sur 11.6.6   | FULLDISC | <a href="https://seclists.org">seclists.org</a>                       |    |
| About the security content of Security Update 2022-005 Catalina - Apple Support                     | CONFIRM  | <a href="https://support.apple.com">support.apple.com</a>             |    |
| About the security content of macOS Monterey 12.3 - Apple Support (PH)                              | CONFIRM  | <a href="https://support.apple.com">support.apple.com</a>             |    |
| huntr – the Bug Bounty Platform for any GitHub repository   | CONFIRM  | <a href="https://huntr.dev">huntr.dev</a>                             |    |
| Full Disclosure: APPLE-SA-2022-07-20-4 Security Update 2022-005 Catalina                            | FULLDISC | <a href="https://seclists.org">seclists.org</a>                       |    |
| [SECURITY] Fedora 35 Update: vim-8.2.4006-1.fc35 - package-announce - Fedora Mailing-Lists          |          | <a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a> |    |
| CVE Program record  | CVE.ORG  | <a href="https://www.cve.org">www.cve.org</a>                         | ca |
| NVD vulnerability detail  | NVD      | <a href="https://nvd.nist.gov">nvd.nist.gov</a>                       | ca |

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

|  |
|--|
| 181993 Debian Security Update for vim (CVE-2021-4187)                                    |
| 282219 Fedora Security Update for vim (FEDORA-2022-a3d70b50f0)                           |
| 282279 Fedora Security Update for vim (FEDORA-2022-48b86d586f)                           |
| 296063 Oracle Solaris 11.4 Support Repository Update (SRU) 45.119.2 Missing (CPUAPR2022) |
| 353117 Amazon Linux Security Advisory for vim : ALAS-2022-1557                           |
| 353120 Amazon Linux Security Advisory for vim : ALAS2-2022-1743                          |
| 354382 Amazon Linux Security Advisory for vim : ALAS2022-2022-014                        |
| 354497 Amazon Linux Security Advisory for vim : ALAS2022-2022-155                        |
| 354585 Amazon Linux Security Advisory for vim : ALAS-2022-155                            |
| 355135 Amazon Linux Security Advisory for vim : ALAS2023-2023-098                        |
| 376485 Apple MacOS Monterey 12.3 Not Installed (HT213183)                                |
| 376608 Apple MacOS Big Sur 11.6.6 Not Installed (HT213256)                               |
| 376739 Apple macOS Security Update 2022-005 Catalina (HT213343)                          |
| 500730 Alpine Linux Security Update for vim  |
| 503065 Alpine Linux Security Update for vim  |
| 503333 Alpine Linux Security Update for vim  |
| 503407 Alpine Linux Security Update for vim  |
| 503496 Alpine Linux Security Update for vim  |
| 503523 Alpine Linux Security Update for vim  |
| 503571 Alpine Linux Security Update for vim  |
| 503608 Alpine Linux Security Update for vim  |
| 503639 Alpine Linux Security Update for vim  |
| 503658 Alpine Linux Security Update for vim  |
| 505951 Alpine Linux Security Update for vim  |
| 710607 Gentoo Linux Vim, gVim Multiple Vulnerabilities (GLSA 202208-32)                  |
| 901816 Common Base Linux Mariner (CBL-Mariner) Security Update for vim (7111-1)          |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

**CVE.report and Source URL Uptime Status [status.cve.report](#)**