



# CVE-2018-20545

Published on: 12/27/2018 12:00:00 AM UTC

Last Modified on: 11/07/2023 02:56:00 AM UTC

## CVE-2018-20545

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H



Certain versions of [Ubuntu Linux](#) from [Canonical](#) contain the following vulnerability:

There is an illegal WRITE memory access at common-image.c (function load\_image) in libcaca 0.99.beta19 for 4bpp data.

CVE-2018-20545 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **8.8 - HIGH**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>NETWORK</b>   | <b>LOW</b>             | <b>NONE</b>         | <b>REQUIRED</b>     |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **6.8 - MEDIUM**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| <b>NETWORK</b>         | <b>MEDIUM</b>     | <b>NONE</b>         |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| <b>PARTIAL</b>         | <b>PARTIAL</b>    | <b>PARTIAL</b>      |

## CVE References

| Description                                                                                          | Tags                                                                 | Link                                          |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|
| [SECURITY] Fedora 34 Update: libcaca-0.99-0.59.beta20.fc34 - package-announce - Fedora Mailing-Lists | <a href="#">lists.fedoraproject.org</a><br><a href="#">text/html</a> | <a href="#">FEDORA FEDORA-2022-e3b9986722</a> |

|                                                                                                                               |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1652621 – There is an illegal WRITE memory access at src/common-image.c:203 (function:load_image) in libcacca latest version. | <a href="#">Exploit</a><br><a href="#">Issue Tracking</a><br><a href="#">Patch</a><br><a href="#">Third Party Advisory</a><br><a href="#">bugzilla.redhat.com</a><br><a href="#">text/html</a> |  MISC <a href="https://bugzilla.redhat.com/show_bug.cgi?id=1652621">bugzilla.redhat.com/show_bug.cgi?id=1652621</a>                                                                     |
| [SECURITY] Fedora 35 Update: libcacca-0.99-0.59.beta20.fc35 - package-announce - Fedora Mailing-Lists                         | <a href="#">lists.fedoraproject.org</a><br><a href="#">text/html</a>                                                                                                                           |  FEDORA <a href="#">FEDORA-2022-fc6b53e7a2</a>                                                                                                                                          |
| [security-announce] openSUSE-SU-2019:1144-1: moderate: Security update f                                                      | <a href="#">lists.opensuse.org</a><br><a href="#">text/html</a>                                                                                                                                |  SUSE <a href="#">openSUSE-SU-2019:1144</a>                                                                                                                                             |
| [SECURITY] Fedora 36 Update: libcacca-0.99-0.59.beta20.fc36 - package-announce - Fedora Mailing-Lists                         | <a href="#">lists.fedoraproject.org</a><br><a href="#">text/html</a>                                                                                                                           |  FEDORA <a href="#">FEDORA-2022-3d291845d8</a>                                                                                                                                          |
| USN-3860-1: libcacca vulnerabilities   Ubuntu security notices                                                                | <a href="#">Third Party Advisory</a><br><a href="#">usn.ubuntu.com</a><br><a href="#">text/html</a>                                                                                            |  UBUNTU <a href="#">USN-3860-1</a>                                                                                                                                                      |
| CVE-2018-20545 · Issue #37 · cacalabs/libcacca · GitHub                                                                       | <a href="#">github.com</a><br><a href="#">text/html</a>                                                                                                                                        |  MISC <a href="https://github.com/cacalabs/libcacca/issues/37">github.com/cacalabs/libcacca/issues/37</a>                                                                               |
| USN-3860-2: libcacca vulnerabilities   Ubuntu security notices                                                                | <a href="#">Third Party Advisory</a><br><a href="#">usn.ubuntu.com</a><br><a href="#">text/html</a>                                                                                            |  UBUNTU <a href="#">USN-3860-2</a>                                                                                                                                                    |
| img2txt: fix an integer overflow in the BMP loader. · cacalabs/libcacca@3e52dab · GitHub                                      | <a href="#">github.com</a><br><a href="#">text/html</a>                                                                                                                                        |  MISC <a href="https://github.com/cacalabs/libcacca/commit/3e52dabe3e64dc50f4422effe364a1457a8a8592">github.com/cacalabs/libcacca/commit/3e52dabe3e64dc50f4422effe364a1457a8a8592</a> |

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## Related QID Numbers

[282517](#) Fedora Security Update for libcacca (FEDORA-2022-fc6b53e7a2)

[282518](#) Fedora Security Update for libcacca (FEDORA-2022-e3b9986722)

[501032](#) Alpine Linux Security Update for libcacca

## Known Affected Configurations (CPE V2.3)

| Type             | Vendor                    | Product                      | Version | Update | Edition | Language |
|------------------|---------------------------|------------------------------|---------|--------|---------|----------|
| Operating System | <a href="#">Canonical</a> | <a href="#">Ubuntu Linux</a> | 12.04   | All    | All     | All      |
| Operating System | <a href="#">Canonical</a> | <a href="#">Ubuntu Linux</a> | 14.04   | All    | All     | All      |
| Operating        | <a href="#">Canonical</a> | <a href="#">Ubuntu Linux</a> | 16.04   | All    | All     | All      |



|                                                      |                          |
|------------------------------------------------------|--------------------------|
| cpe:2.3:o:redoraproject:redora:30: : : : : :         |                          |
| cpe:2.3:a:libcaca_project:libcaca:0.99:beta19:*****: |                          |
| cpe:2.3:a:libcaca_project:libcaca:0.99:beta19:*****: |                          |
| cpe:2.3:o:opensuse:leap:15.0:*****:                  |                          |
| No vendor comments have been submitted for this CVE  |                          |
| <a href="#">← Previous ID</a>                        | <a href="#">Next ID→</a> |

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