

Bug 1891933 (CVE-2020-25675) - CVE-2020-25675 ImageMagick: outside the range of representable values of type 'long' and integer overflow at MagickCore/transform.c and MagickCore/image.c

Keywords: Security

Status: CLOSED WONTFIX

Alias: CVE-2020-25675

Product: Security Response

Component: vulnerability

Version: unspecified

Hardware: All

OS: Linux

Priority: medium

Severity: medium

Target: ---

Milestone: ---

Assignee: Red Hat Product Security

QA Contact:

Docs Contact:

URL:

Whiteboard:

Depends On: 4004396 4004397 1910559

Blocks: 1891602

TreeView+ depends on / blocked

Reported: 2020-10-27 17:34 UTC by Guilherme de Almeida Suckevicz

Modified: 2021-02-11 19:04 UTC (History)

CC List: 7 users (show)

Fixed In Version: ImageMagick 7.0.9-0

Doc Type: If docs needed, set a value

Doc Text: A flaw was found in ImageMagick. Rounding calculations performed on unconstrained pixel offsets causes undefined behavior in the form of integer overflow and out-of-range values. Such issues could cause a negative impact to application availability or other problems related to undefined behavior, in cases where ImageMagick processes untrusted input data. The highest threat from this vulnerability is to system availability.

Clone Of:

Environment:

Last Closed: 2020-11-24 23:34:11 UTC

Attachments	(Terms of Use)
Add an attachment (proposed patch, testcase, etc.)	

- Guilherme de Almeida Suckevicz2020-10-27 17:34:53 UTC

Description

In ImageMagick 7.0.8-68 there are 6 outside the range of representable values of type 'long' and 2 integer overflow at MagickCore/transform.c,image.c.

Reference:
<https://github.com/ImageMagick/ImageMagick/issues/1731>

Upstream patch:
<https://github.com/ImageMagick/ImageMagick/commit/64dc80b2e1907f7f20bf34d4df9483f938b0de71>
- Todd Cullum2020-10-28 22:28:56 UTC

Comment 1

Flaw summary:

In the CropImage() and CropImageToTiles() routines of MagickCore/transform.c, rounding calculations performed on unconstrained pixel offsets was causing undefined behavior in the form of integer overflow and out-of-range values as reported by UndefinedBehaviorSanitizer. Such issues could cause a negative impact to application availability or other problems related to undefined behavior, in cases where ImageMagick processes untrusted input data. The upstream patch introduces functionality to constrain the pixel offsets and prevent these issues.
- Todd Cullum2020-10-28 22:40:45 UTC

Comment 2

Acknowledgments:

Name: Suhwan Song (Seoul National University)
- Guilherme de Almeida Suckevicz2020-11-24 19:05:38 UTC

Comment 4

Created ImageMagick tracking bugs for this issue:

Affects: epel-8 [[bug-1891933](#)]

Affects: fedora-all [[bug-1891933](#)]
- Product Security DevOps Team2020-11-24 23:34:11 UTC

Comment 5

This bug is now closed. Further updates for individual products will be reflected on the CVE page(s):

<https://access.redhat.com/security/cve/cve-2020-25675>
- ~~Eric Christensen~~2021-02-11 19:04:20 UTC

Comment 7

Statement:

This flaw is out of support scope for Red Hat Enterprise Linux 5, 6, and 7. Inkscape is not affected because it no longer uses a bundled ImageMagick in Red Hat Enterprise Linux 8. For more information regarding support scopes, please see <https://access.redhat.com/support/policy/updates/errata>.

Note
You need to [log in](#) before you can comment on or make changes to this bug.