

Bug 1898290 (CVE-2020-27771) - CVE-2020-27771 ImageMagick: outside the range of representable values of type 'unsigned char' at coders/pdf.c

Keywords: Security ×

Status: CLOSED WONTFIX

Alias: CVE-2020-27771

Product: Security Response

Component: vulnerability 🛡️

Version: unspecified

Hardware: All

OS: Linux

Priority: low

Severity: low

Target ---

Milestone:

Assignee: Red Hat Product Security

QA Contact:

Docs Contact:

URL:

Whiteboard:

Depends On: 4004267 4004268 🏠 1910532

Blocks: 1891602

TreeView+ depends on / blocked

Reported: 2020-11-16 18:30 UTC by Guilherme de Almeida Suckevicz

Modified: 2021-02-15 20:55 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: 📄 In RestoreMSCWarning() of /coders/pdf.c there are several areas where calls to GetPixelIndex() could result in values outside the range of representable for the unsigned char type. The patch casts the return value of GetPixelIndex() to ssize_t type to avoid this bug. This undefined behavior could be triggered when ImageMagick processes a crafted pdf file.

Clone Of:

Environment:

Last Closed: 2020-11-24 23:35:21 UTC

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

Guilherme de Almeida Suckevicz	2020-11-16 18:30:56 UTC	Description
<p>In ImageMagick, there is an outside the range of representable values of type 'unsigned char' at coders/pdf.c.</p> <p>Reference: https://github.com/ImageMagick/ImageMagick/issues/1753</p> <p>Upstream patch: https://github.com/ImageMagick/ImageMagick/commit/872ffe6d013lbeec8b47568a4874ffaca91a872e https://github.com/ImageMagick/ImageMagick/commit/9dd1c7elf8f6c137bfd3293be2554f59456c7b62</p>		
Guilherme de Almeida Suckevicz	2020-11-16 18:30:59 UTC	Comment 1
<p>Acknowledgments:</p> <p>Name: Suhwan Song (Seoul National University)</p>		
Todd Cullum	2020-11-16 20:15:44 UTC	Comment 3
<p>Flaw summary:</p> <p>In RestoreMSCWarning() of /coders/pdf.c there are several areas where calls to GetPixelIndex() could result in values outside the range of representable for the unsigned char type. The patch casts the return value of GetPixelIndex() to ssize_t type to avoid this bug. This undefined behavior could be triggered when ImageMagick processes a crafted pdf file. Red Hat Product Security marked this as Low severity because although it could potentially lead to an impact to application availability, no specific impact was demonstrated in this case.</p>		
Guilherme de Almeida Suckevicz	2020-11-24 19:29:15 UTC	Comment 4
<p>Created ImageMagick tracking bugs for this issue:</p> <p>Affects: epel-8 [bug-1891607] Affects: fedora-all [bug-1891608]</p>		
Product Security DevOps Team	2020-11-24 23:35:21 UTC	Comment 5
<p>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-2020-27771</p>		
Eric Christensen	2021-02-15 20:55:13 UTC	Comment 7
<p>Statement:</p> <p>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 .</p> <p>Red Hat Product Security marked this as Low severity because although it could potentially lead to an impact to application availability, no specific impact was demonstrated in this case.</p>		

Note

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