



## Bug 1388377 (CVE-2016-8617) - CVE-2016-8617 curl: Out-of-bounds write via unchecked multiplication

**Keywords:**  ✕ ▼

**Status:** CLOSED ERRATA

**Alias:** CVE-2016-8617

**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:** [1390894](#) [1390895](#) [1390896](#)

**Blocks:** [1388393](#)

**TreeView+** [depends on](#) / [blocked](#)

**Reported:** 2016-10-25 08:18 UTC by Andrej Nemeec

**Modified:** 2021-02-17 03:08 UTC [\(History\)](#)

**CC List:** 34 users [\(show\)](#)

**Fixed In Version:** curl 7.51.0

**Clone Of:**

**Environment:**

**Last Closed:** 2019-06-08 03:00:54 UTC

**Embargoed:**

Attachments		<a href="#">(Terms of Use)</a>	
<a href="#">Upstream patch</a> (739 bytes, patch) 2016-10-25 08:54 UTC, Andrej Nemeec	<i>no flags</i>	<a href="#">Details</a>   <a href="#">Diff</a>	
<a href="#">View All</a>			

### Links

System	ID	Private	Priority	Status	Summary	Last Updated
Red Hat Product Errata	<a href="#">RHSA-2018:2486</a>	0	None	None	None	2018-08-16 16:07:10 UTC
Red Hat Product Errata	<a href="#">RHSA-2018:3558</a>	0	None	None	None	2018-11-13 08:33:03 UTC

Andrej Nemeec	2016-10-25 08:18:06 UTC	Description
<p>In libcurl's base64 encode function, the output buffer is allocated as follows without any checks on insize:</p> <pre>    malloc( insize * 4 / 3 + 4 )</pre> <p>On systems with 32-bit addresses in userspace (e.g. x86, ARM, x32), the multiplication in the expression wraps around if insize is at least 1GB of data. If this happens, an undersized output buffer will be allocated, but the full result will be written, thus causing the memory behind the output buffer to be overwritten.</p> <p>If a username is set directly via `CURLOPT_USERNAME` (or curl's `-u, --user` option), this vulnerability can be triggered. The name has to be at least 512MB big in a 32bit system.</p> <p>Systems with 64 bit versions of the `size_t` type are not affected by this issue.</p> <p>External References:</p> <p><a href="https://curl.haxx.se/docs/adv_20161102C.html">https://curl.haxx.se/docs/adv_20161102C.html</a></p>		

Andrej Nemeec	2016-10-25 08:54:49 UTC	Comment 1
<p>Created <a href="#">attachment 1213772</a> [details] Upstream patch</p>		

Adam Mariš	2016-11-02 08:26:32 UTC	Comment 2
<p>Created curl tracking bugs for this issue:</p> <p>Affects: fedora-all [ <a href="#">bug-1390894</a> ]</p>		

Adam Mariš	2016-11-02 08:26:47 UTC	Comment 3
<p>Created mingw-curl tracking bugs for this issue:</p> <p>Affects: fedora-all [ <a href="#">bug-1390895</a> ]</p>		

Affects: epel-7 [[bug-1390896](#)]

errata-xmlrpc 2018-08-16 16:06:56 UTC

[Comment 6](#)

This issue has been addressed in the following products:

Red Hat JBoss Core Services

Via RHSA-2018:2486 <https://access.redhat.com/errata/RHSA-2018:2486>

errata-xmlrpc 2018-11-13 08:32:48 UTC

[Comment 7](#)

This issue has been addressed in the following products:

Red Hat Software Collections for Red Hat Enterprise Linux 6  
Red Hat Software Collections for Red Hat Enterprise Linux 7  
Red Hat Software Collections for Red Hat Enterprise Linux  
7.4 EUS  
Red Hat Software Collections for Red Hat Enterprise Linux  
7.5 EUS  
Red Hat Software Collections for Red Hat Enterprise Linux  
7.6 EUS

Via RHSA-2018:3558 <https://access.redhat.com/errata/RHSA-2018:3558>

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Note

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