



Sec Buq #79329 get_headers() silently truncates after a null byte

 Submitted: 2020-03-01 18:40 UTC
 Modified: 2020-03-17 05:39 UTC

 From: 64796c6e69 at gmail dot com Assigned: stas (profile)

 Status: Closed
 Package: *URL Functions

 PHP Version: Irrelevant
 Os: any

 Private report: No
 CVE-ID: 2020-7066

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[2020-03-01 18:40 UTC] 64796c6e69 at gmail dot com

Patches

Add a Patch

Pull Requests

headers from http://localhost

Add a Pull Request

History

All Comments Changes

nanges Git/SVN commits

Related reports

[2020-03-02 08:33 UTC] cmb@php.net

-Assigned To: +Assigned To: stas

[2020-03-02 08:33 UTC] cmb@php.net

```
Indeed, get_headers()'s $url has to be a valid path, because we're
passing it to php_stream_open_wrapper_ex().
 ext/standard/url.c | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
diff --git a/ext/standard/url.c b/ext/standard/url.c
index 57fd80cc1d..fe6d7f9de1 100644
 --- a/ext/standard/url.c
+++ b/ext/standard/url.c
@@ -680,7 +680,7 @@ PHP_FUNCTION(get_headers)
        php_stream_context *context;
        ZEND_PARSE_PARAMETERS_START(1, 3)
                Z_PARAM_STRING(url, url_len)
                Z_PARAM_PATH(url, url_len)
                Z_PARAM_OPTIONAL
                Z PARAM LONG(format)
                Z_PARAM_RESOURCE_EX(zcontext, 1, 0)
```

I don't see the need for an regression test (ZPP only).

[2020-03-02 18:32 UTC] <u>stas@php.net</u>

Note: the code in the test script is in no way secure. parse_url() does not guarantee the resulting URL is valid (or even HTTP URL) - it just tries its best to parse it in assumption it's valid. If you need URL validation (as you should if you importing external URLs) other methods should be used.

That said. no reason for get_headers() to accept URLs with nulls, so it shouldn't.

@stas That's true. I may have oversimplified the example. My main point to get across was that even if validation exists, it wouldn't necessarily check the subdomain using a whitelist. There are too many characters valid in

https://stackoverflow.com/questions/7111881/what-are-the-allowed-characters-in-a-subdomain/22319900#22319900

[2020-03-16 00:29 UTC] stas@php.net

+CVE-ID: 2020-7066

[2020-03-17 05:39 UTC] stas@php.net

Automatic comment on behalf of stas

Revision: http://git.php.net/?p=php-src.git;a=commit;h=0d139c5b94a5f485a66901919e51faddb0371c43

Log: Fix bug #79329 - get_headers should not accept \0

[2020-03-17 05:39 UTC] stas@php.net

[2020-03-17 05:40 UTC] stas@php.net

Automatic comment on behalf of stas Revision: http://git.php.net/?p-php-src.git;a=commit;h=69fdc14152edefd75a33be7fe87d1194098c67f7
Log: Fix bug #79329 - get_headers should not accept \0

[2020-03-17 05:41 UTC] stas@php.net

Automatic comment on behalf of stas

Revision: http://git.php.net/?p=php-src.git;a=commit;h=335547a04d133e757c044dfa7cd78ab685939924

Log: Fix bug #79329 - get_headers should not accept \0

[2020-03-17 05:43 UTC] stas@php.net

Automatic comment on behalf of stas

Revision: http://git.php.net/?p=php-src.git;a=commit;h=2bc92a0cf79e52e2096e45987468740d5bc748ed

Log: Fix bug #79329 - get_headers should not accept $\0$

[2020-03-17 08:30 UTC] cmb@php.net

Automatic comment on behalf of stas

[2020-03-17 09:48 UTC] cmb@php.net

Automatic comment on behalf of stas

Revision: http://git.php.net/?p=php-src.git;a=commit;h=69fdc14152edefd75a33be7fe87d1194098c67f7

Log: Fix $\underline{\text{bug } \#79329}$ - get_headers should not accept $\0$

[2020-03-17 09:48 UTC] cmb@php.net

Automatic comment on hehalf of stas

Revision: http://git.php.net/?p=php-src.git;a=commit;h=335547a04d133e757c044dfa7cd78ab685939924

Log: Fix $\underline{\text{bug #79329}}$ - get_headers should not accept $\0$

[2020-03-17 10:02 UTC] cmb@php.net

Automatic comment on behalf of stas

Revision: http://git.php.net/?p=php-src.git;a=commit;h=0d139c5b94a5f485a66901919e51 faddb0371c43

Log: Fix bug #79329 - get_headers should not accept \0

[2020-03-17 10:22 UTC] derick@php.net

Automatic comment on behalf of stas

Revision: http://git.php.net/?p=php-src_git:a=commit:h=a33d05b1474caee449b88f53d61bee720c57caf7
Log: Fix bug #79329 - get_headers should not accept \0