🕹 Maniphest > T268938 Create Task

☑ BlockLogFormatter can output raw html (CVE-2020-35478, CVE-2020-35479)

☑ Closed, Resolved ☑ Public SECURITY

Actions

```
Umherirrender
Authored By
     Umherirrender
     2020-11-29 11:17:31 (UTC+0)
Security-Team (Our Part Is Done)
Security
■ MediaWiki-Blocks (Backlog)
■ MediaWiki-Logevents (Backlog)

    Anti-Harassment (The Letter Song) (Done: Q2 (2020-2021) 
    ✓)

♥ MW-1.36-notes (1.36.0-wmf.21; 2020-12-08)
MW-1.35-notes
■ MW-1.31-release-notes
> Vuln-XSS
Referenced Files
None
Subscribers
     Aklapper
     Daimona
     DannyS712
     dmaza
     gerritbot
     Jdforrester-WMF
     Niharika
                                                                                                    View All 11 Subscribers
```

Description

CVE-2020-35478 - Potential XSS via MediaWiki:blanknamespace outputting Block Logs

CVE-2020-35479 - Potential XSS via the "month messages" such as MediaWiki:january through MediaWiki:december outputting Block Logs

While working on **T216348** I have found issues with the BlockLogFormatter

First issue is about the message ${\tt blanknamespace}$. it is used with ${\tt Message::text}$

```
$namespaces = $params[6]['namespaces'] ?? [];
? $this->msg('blanknamespace' )->text()
: $this->context->getLanguage()->getFormattedNsText( $ns );
$params = [ 'namespace' => $ns ];
return $this->makePageLink( SpecialPage::getTitleFor( 'Allpages' ), $params, $text );
}, $namespaces );
```

But LogFormatter::makePageLink is documented to get html as third parameter, even in plaintext mode from LogFormatter.

Through that message it is possible to output raw html including script tags

The second issue is with Language::translateBlockExpiry. The return value is included as raw param in the output without escaping.

```
"<span class=\"blockExpiry\" title=\"$durationTooltip\">" .
$blockExpiry .
      </span>
```

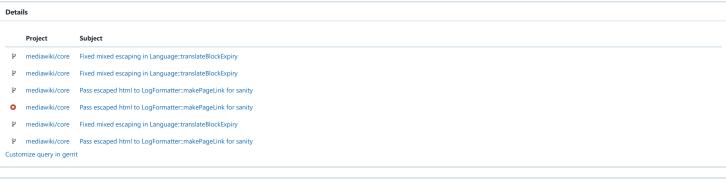
Language::translateBlockExpiry itself does not escape all code path, for example the return of Language::userTimeAndDate, which is always unsafe for html.

Through the month messages it is possible to output raw html including script tags.

Taint-check found other places to check, but that looks like false positives to me:

13:49:09 includes/logging/BlockLogFormatter.php:98 SecurityCheck-XSS Calling method \Message::rawParams() in \BlockLogFormatter::getMessageParameters that outputs using tainted argument \$[arg #1]. (Caused by: Builtin-\Message::rawParams) (Caused by: includes/logging/BlockLogFormatter.php +82) (Param is raw)
13:49:09 includes/logging/BlockLogFormatter.php:18 (Param is raw)
13:49:09 includes/logging/BlockLogFormatter.php:18 (Param is raw)
13:49:09 includes/logging/BlockLogFormatter.php:48) (Param is raw)
13:49:09 includes/logging/BlockLogFormatter.php:48) (Param is raw)
13:49:09 includes/logging/BlockLogFormatter.php:48) (Param is raw)

LogFormatter has a plaintext mode and a normal mode and that confused taint-check





- ♣ @Restricted Application added a subscriber: Aklapper. · View Herald Transcript 2020-11-29 11:17:33 (UTC+0)
- Reedy added projects: MediaWiki-Blocks, MediaWiki-Logevents. 2020-11-29 16:59:26 (UTC+0)
- Reedy updated the task description. (Show Details)
- Reedy triaged this task as High priority. 2020-11-30 16:24:12 (UTC+0)
- $\begin{tabular}{ll} \hline \blacksquare & \textbf{Reedy} \ \text{moved this task from Incoming to Watching on the Security-Team board.} \\ \hline \end{tabular}$
- Tchanders added a project: Anti-Harassment (The Letter Song). 2020-12-07 14:46:14 (UTC+0)
- 2 Tchanders added subscribers: dmaza, STran, Niharika.
- □ Tchanders moved this task from Ready (ONLY IF YOU HAVE NO MORE CODE TO REVIEW) to Code Review (on the Anti-Harassment (The Letter Song) board. 2020-12-07 16:13:34 (UTC+0)

■ Umherirrender claimed this task. 2020-12-07 17:19:06 (UTC+0)

First part fixed with https://gerrit.wikimedia.org/r/c/mediawiki/core/+/646684

Second part fixed with https://gerrit.wikimedia.org/r/c/mediawiki/core/+/646689

Could be public after the next train

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- **Solution** shape the same of t
- □ Tchanders moved this task from Code Review to Bone. Q2 (2020-2021) on the Anti-Harassment (The Letter Song) board. 2020-12-08 15:33:14 (UTC+0)
 ② Tchanders added subscribers: DannyS712, Jdforrester-WMF, Tchanders.
 We'll keep an eye on this, but looks like there's nothing for Anti-Harassment to do, thanks to @Umherirrender @DannyS712 and @Jdforrester-WMF sorting it quickly!

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- Reedy mentioned this in T2633893. Tracking bug for MediaWiki 1.31.11/1.35.1. 2020-12-15 13:28:18 (UTC+0)
- **Reedy** added a subscriber: **gerritbot**.

Change 649521 had a related patch set uploaded (by Reedy; owner: Umherirrender):
[mediawiki/core@REL1_35] Pass escaped html to LogFormatter::makePageLink for sanity

https://gerrit.wikimedia.org/r/649521

% gerritbot added a project: Patch-For-Review. 2020-12-15 13:37:20 (UTC+0)

Change 649522 had a related patch set uploaded (by Reedy; owner: Umherirrender):
[mediawiki/core@REL1_31] Pass escaped html to LogFormatter::makePageLink for sanity

https://gerrit.wikimedia.org/r/649522

gerritbot added a comment. 2020-12-15 13:38:16 (UTC+0)

gerritbot added a comment. 2020-12-15 13:37:16 (UTC+0)

Change 649522 **abandoned** by Reedy: [mediawiki/core@REL1_31] Pass escaped html to LogFormatter::makePageLink for sanity

Reason:

https://gerrit.wikimedia.org/r/649522

gerritbot added a comment. 2020-12-15 13:40:10 (UTC+0)

Change 649523 had a related patch set uploaded (by Reedy; owner: Umherirrender): [mediawiki/core@REL1_35] Fixed mixed escaping in Language::translateBlockExpiry

Reedy updated the task description. (Show Details)

This needed two different CVE, because two different CVEs.

Might need to do some upstream tweaking post release.

- **Reedy** changed the visibility from "Custom Policy" to "Public (No Login Required)". 2020-12-18 00:24:47 (UTC+0)
- Reedy changed the edit policy from "Custom Policy" to "All Users".
- % sbassett added a project: Vuln-XSS. 2021-03-16 21:30:53 (UTC+0)
- x Zabe merged a task: T250612. Language..translateBlockExpiry escapes HTML inconsistently. 2021-06-24 11:57:51 (UTC+0)
- **Zabe** added a subscriber: **Daimona**.
- sbassett moved this task from Watching to Our Part Is Done on the Security-Team board. 2021-06-24 18:11:51 (UTC+0)