

Sabberworm PHP CSS parser - Code injection vulnerability



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From: Eldar Marcussen <wireghoul () gmail com>
Date: Tue, 2 Jun 2020 09:00:20 +1000
Sabberworm PHP CSS parser - Code injection
 * CVE-2020-13756
 Sabberworm - https://github.com/sabberworm/PHP-CSS-Parser
A Parser for CSS Files written in PHP. Allows extraction of CSS files into a data structure, manipulation of said structure and output as (optimized) CSS.
Affected versions
 - All versions prior to the fixed versions listed below
Eldar Marcussen - justanotherhacker.com
The Sabberworm PHP CSS Parser evaluates uncontrolled data which may result in remote code execution if the affected function is called with attacker controlled data.
The function `allSelectors` in 
`lib/Sabberworm/CSS/CSSList/CSSBlockList.php` on line `64` interpolates 
untrusted data inside an `eval()` operation on line `73`. 
https://github.com/sabberworm/PHP-CSS-Parser/blob/master/lib/Sabberworm/CSS/CSSList/CSSBlockList.php#L73
The function 'allSelectors' is called via the function 'getSelectorsBySpecificity' in 'lib/Sabberworm/CSS/CSSList/Document.php' which is the class object returned from the 'parse()' function in 'lib/Sabberworm/CSS/Parser.php'. If an attacker is able to supply or influence the content of the data passed to the 'allSelectors' or 'getSelectorsBySpecificity' functions, the server will execute attacker controlled code.
```php
protected function allSelectors(&$aResult, $sSpecificitySearch = null) {
 } else {
}
 }
Proof of concept
The following evidence is provided to illustrate the existence and
exploitation of this vulnerability:
Save the following code as csspwn.php
<?php
use Sabberworm\CSS\Parser;</pre>
$css="#test .help,\n#file,\n.help:hover,\nli.green,\nol li::before {\n font-family: Helvetica;\n}";
$oCssParser = new Sabberworm\CSS\Parser($css);
$oDoc = $oCssParser->parse();
$oDoc->getSelectorsBySpecificity('> '.$_GET['n']);
?>
Serve the page via `php -S 0:8888` then open the following URL: http://localhost:8888/csspwn.php?n=100;phpinfo()
 Upgrade to one of the following versions:
```

6.0.2
7.0.4
8.0.1
8.1.1
8.2.1
8.3.1

Timeline

Date | Status

01-JUN-2020 | Reported to vendor
01-JUN-2020 | Patch available
02-JUN-2020 | Public disclosure

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Web Archives & RSS: http://seclists.org/fulldisclosure/



## **Current thread:**

Sabberworm PHP CSS parser - Code injection vulnerability *Eldar Marcussen (Jun 02)* 

