

New issue

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some vulnerability - 0x03 an out-of-bound vulnerability in readTextWithDescrFrame function #79

Closed

Jay1n opened this issue on Nov 19, 2020 · 7 comments

Jay1n commented on Nov 19, 2020 • edited

This is the third vulnerability in [id3v2frames.go](#)

In readTextWithDescrFrame function, you don't check the size of b, program will happen panic when the size of b is 2 or less than 2.

testcase [8eff69ad26a59a05ec11e38f3ca6c592f08dcc54.zip](#)

```
panic: runtime error: slice bounds out of range [:3] with capacity 2

goroutine 1 [running]:
github.com/dhowden/tag.readTextWithDescrFrame(0xc000da038, 0x3, 0x3, 0x101, 0x122b1a0, 0x0, 0x0)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20200828214007-46e57f75dbfc/id3v2frames.go:460 +0x46e
github.com/dhowden/tag.readID3v2Frames(0x114d600, 0xc000d08000, 0x17, 0xc000dc000, 0xc000d08000, 0x0, 0xb)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20200828214007-46e57f75dbfc/id3v2.go:364 +0x90b
github.com/dhowden/tag.ReadID3v2Tags(0x114daa0, 0xc000d08000, 0x1, 0x0, 0x0, 0x0)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20200828214007-46e57f75dbfc/id3v2.go:428 +0x5de
github.com/dhowden/tag.ReadFrom(0x114daa0, 0xc000d08000, 0xc000d06000, 0x17, 0x217, 0x0)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20200828214007-46e57f75dbfc/tag.go:52 +0x324
main.main()
/Users/jaylin/GolandProjects/gofuzz_test/main.go:20 +0xb5
```

dhowden commented on Nov 19, 2020

Owner

Duplicate of #76

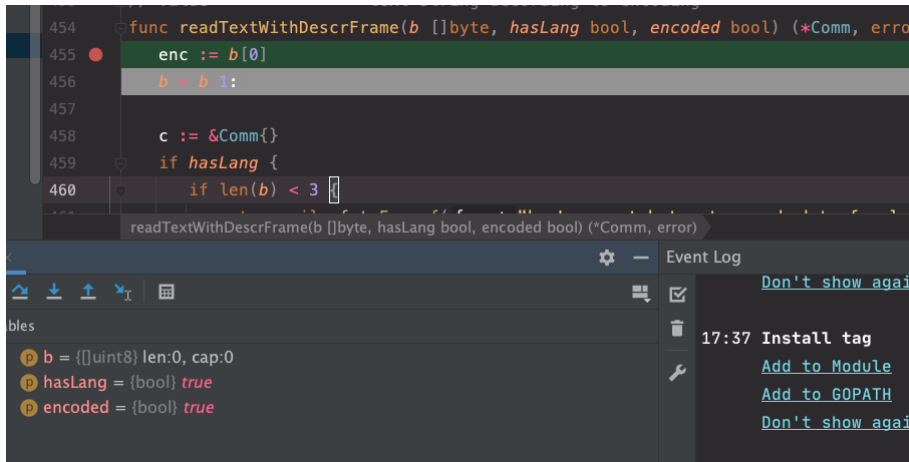
dhowden marked this as a duplicate of #76 on Nov 19, 2020

dhowden closed this as completed on Nov 19, 2020

Jay1n commented on Nov 19, 2020

Author

If the array size is less than 2, it still panic in the latest commit, just like in the figure below



```
panic: runtime error: index out of range [0] with length 0

goroutine 1 [running]:
github.com/dhowden/tag.readTextWithDescrFrame(0x122a898, 0x0, 0x0, 0x101, 0x122b1a0, 0x0, 0x0)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20201119193204-a92213460e48/id3v2frames.go:455 +0x46d
github.com/dhowden/tag.readID3v2Frames(0x114d900, 0xc000dc000, 0x15, 0xc000dc040, 0xc000dc000, 0x0, 0xb)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20201119193204-a92213460e48/id3v2.go:364 +0x91a
github.com/dhowden/tag.ReadID3v2Tags(0x114dd60, 0xc000dc000, 0x1, 0x0, 0x0, 0x0)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20201119193204-a92213460e48/id3v2.go:428 +0x5de
github.com/dhowden/tag.ReadFrom(0x114dd60, 0xc000dc000, 0xc000da000, 0x15, 0x215, 0x0)
/Users/jaylin/go/pkg/mod/github.com/dhowden/tag@v0.0.0-20201119193204-a92213460e48/tag.go:52 +0x324
main.main()
/Users/jaylin/GolandProjects/gofuzz_test/main.go:19 +0xb5
```

@dhowden

dhowden commented on Nov 20, 2020

Owner

Ah yes! Thanks. Happy to receive a pull request to fix :-).

 **dhowden** reopened this on Nov 20, 2020

Jay11n commented on Nov 20, 2020

Author

Ah yes! Thanks. Happy to receive a pull request to fix :-).

@dhowden I'm Sorry. My code is so terrible, but I can give you an advice if you don't have a better way to fix such bugs.

You could use `recover()` function in which caller to regains control of a panicking goroutine. [see more detail](#)

dhowden commented on Nov 20, 2020

Owner

Ah yes! Thanks. Happy to receive a pull request to fix :-).

@dhowden I'm Sorry. My code is so terrible, but I can give you an advice if you don't have a better way to fix such bugs.

No worries :-)

I will have a look now.

 **dhowden** closed this as completed in [d52dcb2](#) on Nov 20, 2020

dhowden commented on Nov 20, 2020

Owner

Just to note: the library was built to read data from valid files (and making it conform to all the specs was bad enough, so I mostly ignored safety measures to trap bad files).. Using a fuzzer will likely find lots of issues like this!

If people are using this in production environments, would definitely recommend that they wrap all calls to the library with `recover` (as you suggest above) to make sure that a panic here does not bring down their entire process.



wader commented on Nov 20, 2020

Contributor

@Jay11n @dhowden nice work! would be possible to add your fuzzing test code to the repo?

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

