

New issue

Jump to bottom

Denial-of-Service (SIGSEGV) at xmlquery.(*Node).InnerText #39

 Closed dwisiswant0 opened this issue on Aug 29, 2020 · 0 comments

Labels enhancement

dwisiswant0 commented on Aug 29, 2020 • edited

Summary

The LoadURL function allows all response types/formats to be parsed (*other than XML*), so that it can proceed to the next process (e.g. xmlquery.(*Node).InnerText from xmlquery.FindOne) without validation.

Description

This security issue affects all xmlquery version.

Steps to Reproduce

```
package main

import (
    "fmt"
    "github.com/antchfx/xmlquery"
)

func main() {
    wadl, err := xmlquery.LoadURL("https://httpbin.org/get")
    if err != nil {
        panic(err)
    }

    attr := xmlquery.FindOne(wadl, "//application/@xmlns")
    fmt.Println(attr.InnerText())
}
```

The logs will look similar to the following:

```
panic: runtime error: invalid memory address or nil pointer dereference
[signal SIGSEGV: segmentation violation code=0x1 addr=0x28 pc=0x6a179a]

goroutine 1 [running]:
github.com/antchfx/xmlquery.(*Node).InnerText.func1(0xc00032e2d0, 0x0)
    /home/dw1/.go/src/github.com/antchfx/xmlquery/node.go:55 +0x2a
github.com/antchfx/xmlquery.(*Node).InnerText(0x0, 0x746b67, 0x14)
    /home/dw1/.go/src/github.com/antchfx/xmlquery/node.go:67 +0x84
main.main()
    /tmp/xmlquery.go:15 +0xa0
exit status 2
```


Vulnerable code:


```
xmlquery/node.go
Lines 50 to 62 in 64ca73d

50     switch n.Type {
51     case TextNode, CharDataNode:
52         buf.WriteString(n.Data)
53     case CommentNode:
54     default:
55         for child := n.FirstChild; child != nil; child = child.NextSibling {
56             output(buf, child)
57         }
58     }
59 }
60
61 var buf bytes.Buffer
```

Recommended Mitigations


- Validates the response from URLs loaded in LoadURL, if not XML format; then returns an error.
- Using xml.Unmarshal (only to check the validity of the XML content).


 zhengchun added the enhancement label on Aug 30, 2020

 zhengchun added a commit that referenced this issue on Aug 30, 2020

 checking XML formatted from HTTP response #39

5648b2f

 dwisiswant0 closed this as completed on Sep 16, 2020

 quetzyg mentioned this issue on Sep 20, 2020

[FIX] Parsing XML from a URL #41

➔ Merged

📅 2 tasks

🔗  lamados mentioned this issue on Jan 28, 2021

Out-of-date version of xmlquery introduces security vulnerability gocolly/colly#581

🔒 Closed

🔗  dwwiswant0 mentioned this issue on Aug 4, 2021

Denial of Service (DoS) in antchfx/xmlquery dwwiswant0/advisory#1

🔒 Closed

Assignees

No one assigned

Labels

enhancement

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

