

I wrote an example for demonstration <a href="https://github.com/egovorukhin/pathTraversalAttacks">https://github.com/egovorukhin/pathTraversalAttacks</a>, using fiber(https://github.com/gofiber/fiber). Checking for the correctness of the path in the function fasthttp->uri.go->normalizePath(dst, src []byte) []byte.

## erikdubbelboer commented on Feb 24

Collaborator

I'm not seeing any issues with your example repo:

```
% git clone git@github.com:egovorukhin/pathTraversalAttacks.git
% go mod vendor
% go run main.go &
% curl 'http://localhost:3003/..%5csecret.txt'
Cannot GET /..%5csecret.txt
% curl 'http://localhost:3003/..%5c..%5clogs/secret.txt'
Cannot GET /..%5c..%5clogs/secret.txt
% curl 'http://localhost:3003/..%5cclogs/secret.txt'
Cannot GET /..%5cclogs/secret.txt
% curl 'http://localhost:3003/home'
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  <h1>Hello world!</h1>
</body>
</html>
```

Are you maybe on a Windows machine? Does running these commands result in something different for you?

## egovorukhin commented on Feb 24

Author

Yes, app run on a Windows Cluster. Could you add a fix for such cases?! Please.

## erikdubbelboer commented on Feb 24

Collaborator

fasthttp.FS is completely incompatible with Windows. See #1108 and #1101.

Now that you have shown that it's also not secure on Windows I'm wondering if I should prevent the use of fasthttp.FS on windows by throwing an error. Either that or someone needs to take the time to make fasthttp.FS compatible with windows.

## egovorukhin commented on Feb 24

Author

I added the code to the normalizePath function and it solved my problem

```
file strings.go
```

```
var (
     . . .
    strSlashDotDotBackSlash = []byte(`/..\`)
    strBackSlashDotDotBackSlash = []byte(`\..\`)
  )
file uri.go
  func normalizePath(dst, src []byte) []byte {
  // remove /foo/..\ parts
          for {
                   n := bytes.Index(b, strSlashDotDotBackSlash)
                   if n < 0 {
                           break
                   nn := bytes.LastIndexByte(b[:n], '/')
                   if nn < 0 {
                           nn = 0
                   n += len(strSlashDotDotBackSlash) - 1
                   copy(b[nn:], b[n:])
                   b = b[:len(b)-n+nn]
          }
          // remove /foo\..\ parts
          for {
                   n := bytes.Index(b, strBackSlashDotDotBackSlash)
                   if n < 0 {
                           break
                   nn := bytes.LastIndexByte(b[:n], '/')
                   if nn < 0 {
                           nn = 0
                   n += len(strBackSlashDotDotBackSlash) - 1
                   copy(b[nn:], b[n:])
                   b = b[:len(b)-n+nn]
          }
  }
```

