

## Home Work #2

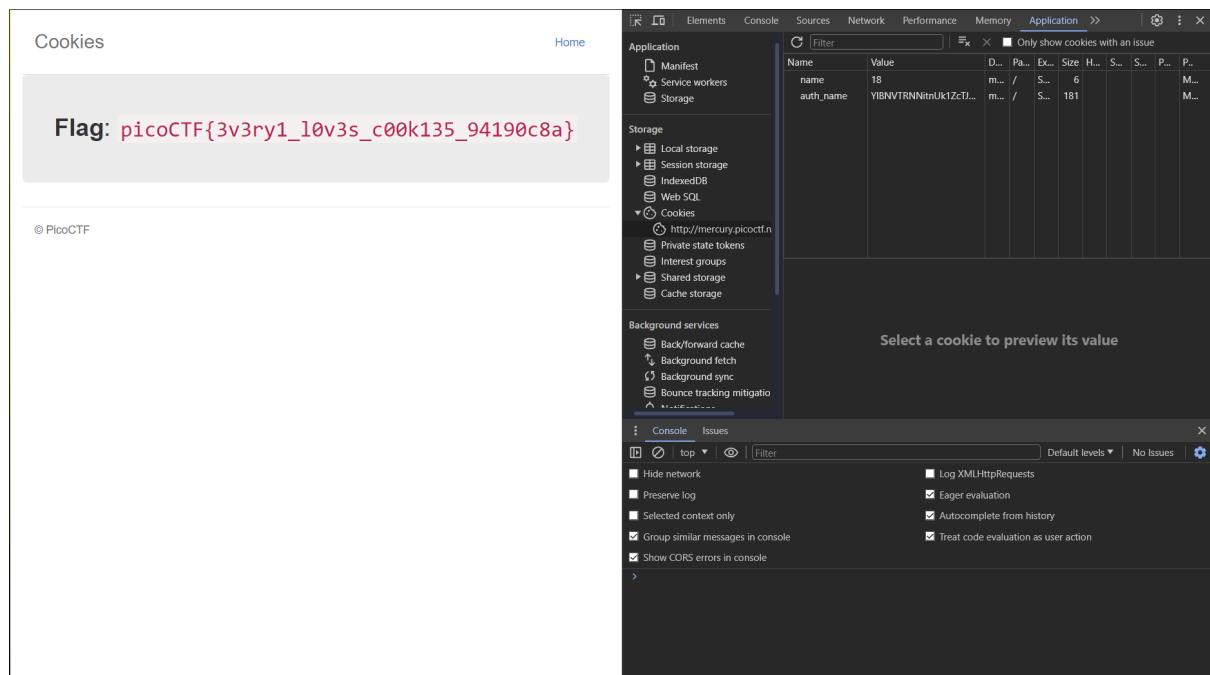
### PicoCTFSolutions

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#### Cookies:

The name of the exercise and the hints suggest I need to go and check for the cookies on this page. I found that had a name so basically when I wrote snickerdoodle the name went to 1 so then I tried modifying this number and I got different types of cookies but the page said it didn't liked that cookie enough so I kept trying until I got to the name number 18 and I got the pico ctf code

**picoCTF{3v3ry1\_l0v3s\_c00k135\_94190c8a}**



#### Inp3ct0r:

In this problem we basically just need to inspect some web pages and follow some steps. First I inspected the first page and searching I got one part of the code picoCTF{tru3\_d3. Then I started opening some archives and I found the second part of the code in the archive mycss that is t3ct1ve\_0r\_ju5t. In the third archive myjs I found the last part of the code that is \_lucky?2e7b23e3}

```

1 <!doctype html>
2 <html>
3   <head>
4     <title>My First Website :)</title>
5     <link href="https://fonts.googleapis.com/css?family=Open+Sans|Roboto" rel="stylesheet">
6     <link rel="stylesheet" type="text/css" href="mycss.css">
7     <script type="application/javascript" src="myjs.js"></script>
8   </head>
9
10  <body>
11    <div class="container">
12      <header>
13        <h1>Inspect Me</h1>
14      </header>
15
16      <button class="tablink" onclick="openTab('tabintro', this, '#222')" id="defaultOpen">What</button>
17      <button class="tablink" onclick="openTab('tababout', this, '#222')">How</button>
18
19      <div id="tabintro" class="tabcontent">
20        <h3>What</h3>
21        <p>I made a website</p>
22      </div>
23
24      <div id="tababout" class="tabcontent">
25        <h3>How</h3>
26        <p>I used these to make this site: <br/>
27          HTML <br/>
28          CSS <br/>
29          JS (JavaScript)
30        </p>
31        <!-- Html is neat. Anyways have 1/3 of the flag: picoCTF{tru3_d3 -->
32      </div>
33
34    </div>
35
36  </body>
37 </html>
38

```

```
div.container {
  width: 100%;
}

header {
  background-color: black;
  padding: 1em;
  color: white;
  clear: left;
  text-align: center;
}

body {
  font-family: Roboto;
}

h1 {
  color: white;
}

p {
  font-family: "Open Sans";
}

.tablink {
  background-color: #555;
  color: white;
  float: left;
  border: none;
  outline: none;
  cursor: pointer;
  padding: 14px 16px;
  font-size: 17px;
  width: 50%;
}

.tablink:hover {
  background-color: #777;
}

.tabcontent {
  color: #111;
  display: none;
  padding: 50px;
  text-align: center;
}

#tabintro { background-color: #ccc; }
#tababout { background-color: #ccc; }

/* You need CSS to make pretty pages. Here's part 2/3 of the flag: t3ct1ve_0r_ju5t */
```

```

function openTab(tabName,elmnt,color) {
    var i, tabcontent, tablinks;
    tabcontent = document.getElementsByClassName("tabcontent");
    for (i = 0; i < tabcontent.length; i++) {
        tabcontent[i].style.display = "none";
    }
    tablinks = document.getElementsByClassName("tablink");
    for (i = 0; i < tablinks.length; i++) {
        tablinks[i].style.backgroundColor = "";
    }
    document.getElementById(tabName).style.display = "block";
    if(elmnt.style != null) {
        elmnt.style.backgroundColor = color;
    }
}

window.onload = function() {
    openTab('tabintro', this, '#222');
}

/* Javascript sure is neat. Anyways part 3/3 of the flag: lucky?2e7b23e3 */

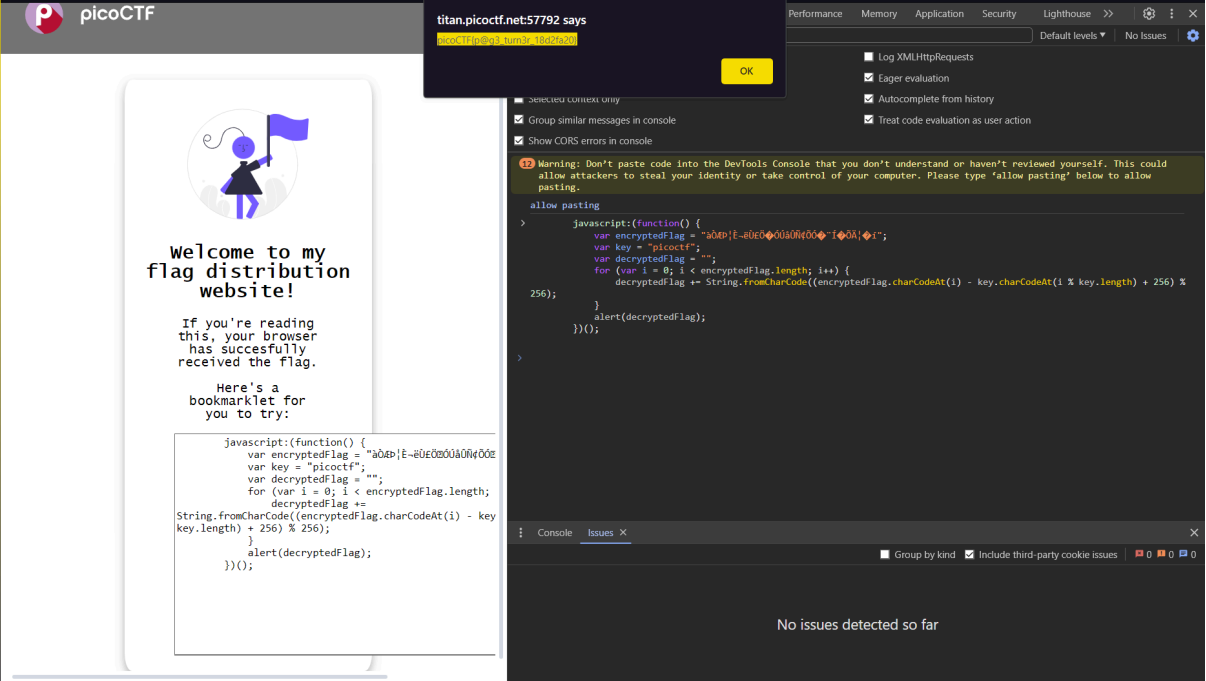
```

## Scavenger Hunt:

Again this exercise starts by inspecting the page, I got the first part of the flag that is picoCTF{t. Then I went into another archive mycss and got the second part that is h4ts\_4\_l0. Then I opened myjs and got a hint that said that basically I needed to make google quit indexing. So I changed the indexing to none and it gave me the third part t\_0f\_pl4c. Then I got a hint of an apache archive and when I opened it I got the fourth part that is 3s\_2\_100k.

## BookMarklet:

The first thing I did for this exercise was to inspect the contents. Then I realized that this function copied to the clipboard so what I did was very simple. I just went into the console of my developer tool in the web page and inserted the function. One I inserted the function into the console I got the code that was = picoCTF{p@ge\_turn3r\_18d2fa20}



## Web Decode:

The first thing I did was to inspect all of the different pages that were available, about, home and the contact page. I didn't find anything in the home and contact page but in the about I found a code.

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8"/>
5   <meta content="IE=edge" http-equiv="X-UA-Compatible"/>
6   <meta content="width=device-width, initial-scale=1.0" name="viewport"/>
7   <link href="style.css" rel="stylesheet"/>
8   <link href="img/favicon.png" rel="shortcut icon" type="image/x-icon"/>
9   <!-- font (google) -->
10  <link href="https://fonts.googleapis.com/css2?family=Lato:ital,wght@0,400;0,700;1,400&display=swap" rel="stylesheet"/>
11  <title>
12    About me
13  </title>
14 </head>
15 <body>
16 <header>
17 <nav>
18   <div class="logo-container">
19     <a href="index.html">
20       
21     </a>
22   </div>
23   <div class="navigation-container">
24     <ul>
25       <li>
26         <a href="index.html">
27           Home
28         </a>
29       </li>
30       <li>
31         <a href="about.html">
32           About
33         </a>
34       </li>
35       <li>
36         <a href="contact.html">
37           Contact
38         </a>
39       </li>
40     </ul>
41   </div>
42 </nav>
43 </header>
44 <section class="about" notify_true="cGljb0NURnt3ZWJfc3VjYzNzc2Z1bGx5X2QzYzBkZWRFmJgzZTYyZmV9">
45   <h1>
46     Try inspecting the page!! You might find it there
47   </h1>
48   <!-- .about-container -->
49 </section>
50 <!-- .about -->
51 <section class="why">
52 <footer>
53   <div class="bottombar">

```

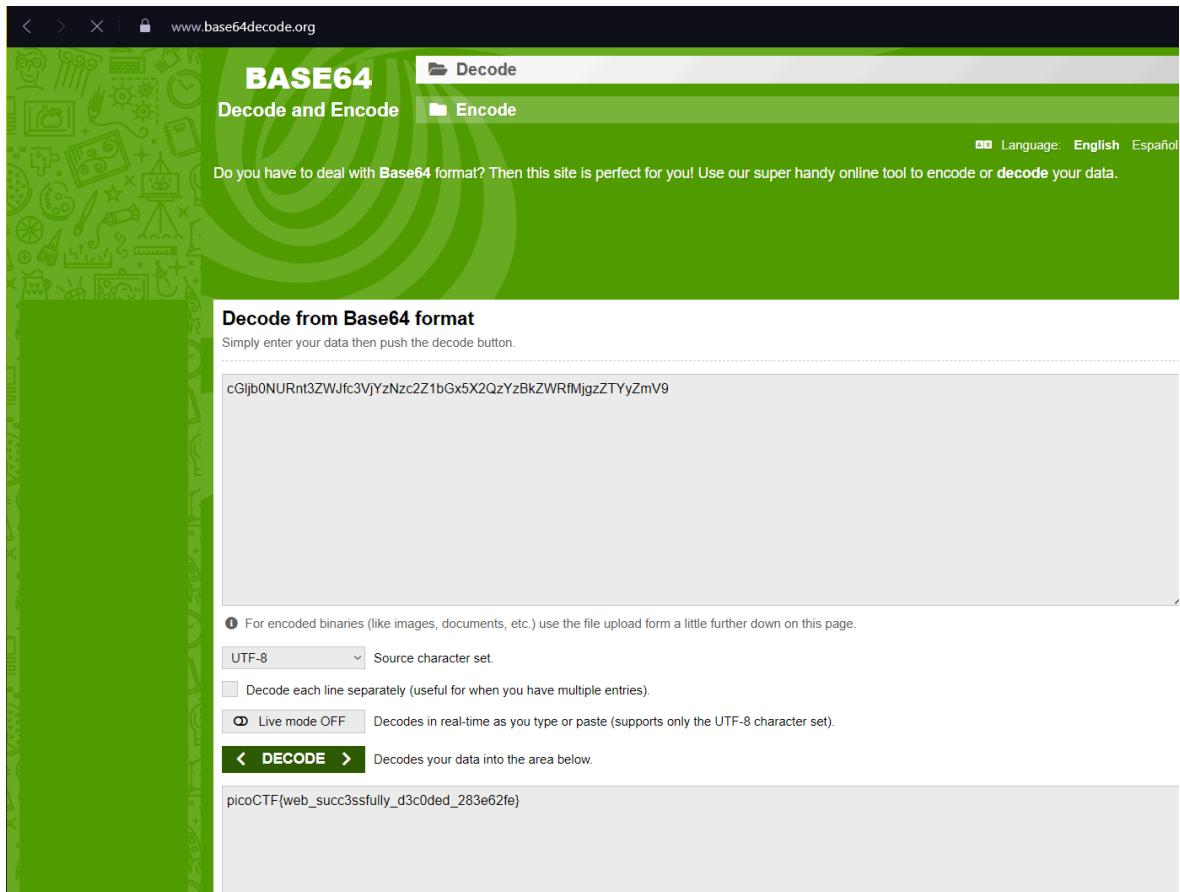
In line 44 there is the code

`cGljb0NURnt3ZWJfc3VjYzNzc2Z1bGx5X2QzYzBkZWRFmJgzZTYyZmV9`

this code needed to be decoded so what I did was search a decoding page for

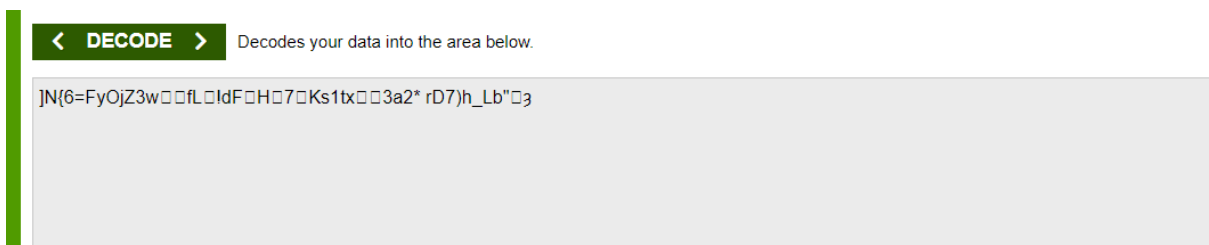
Base64 format and I got my code that is

`picoCTF{web_succ3ssfully_d3c0ded_283e62fe}`



## More Cookies:

For this exercise again I inspected the page and went into the cookies. In the cookies I found a code that looked like a code that needed to be decoded so I entered the code into a decoder and didn't find anything. I reentered it into the decoder and got



After getting this code I inserted it into a AES decoder because I investigated about that in the wikipedia link given in the hint and I got:  
**picoCTF{co0ki3s\_yum\_e491c430}**

## Logon:

In this exercise again we are set with some username and some password that we need to enter. This one was very hard to find but after trying to login as joe I couldn't find anything until searching in the cookies I found that the admin was appearing meaning that maybe by changing it to true I was going to be able to login as joe and probably solve this and at the end it worked because by putting true it was like if I was the admin now and I had full control.

`picoCTF{th3_c0nsp1r4cy_l1v3s_0c98aacc}`

The image shows a web browser window with the 'Factory Login' page. The page has a 'Home' button and a 'Sign Out' button. A 'Flag:' section displays the text `picoCTF{th3_c0nsp1r4cy_l1v3s_0c98aacc}`. Below this, it says '© PicoCTF 2019'.

Overlaid on the right is the Chrome DevTools 'Application' tab, showing the 'Cookies' section. The table lists several cookies:

Name	Value	Domain	Path	Expires	Size	HttpOnly	Secure	SameSite	Partitioned	Priority
_ga_L6FTS2K063	GS1.2.1713394359.8.1.1713396...	.pic...	/	202...	51					Me...
_gat	1	.pic...	/	202...	5					Me...
cf_clearance	IV0s1g3BOBkvKZFbzwajcQp...	.pic...	/	202...	161	✓	✓	None		Me...
_ga	GA1.2.1181063805.1710165897	.pic...	/	202...	30					Me...
_gid	GA1.2.1782605407.1713336727	.pic...	/	202...	31					Me...
_cf_bm	flOR_hzv9.QQcAC1U7vulcVX0...	.pic...	/	202...	156	✓	✓	None		Me...
_ga_BS2FGM3NWK	GS1.1.1713336726.2.0.1713336...	.pic...	/	202...	51					Me...

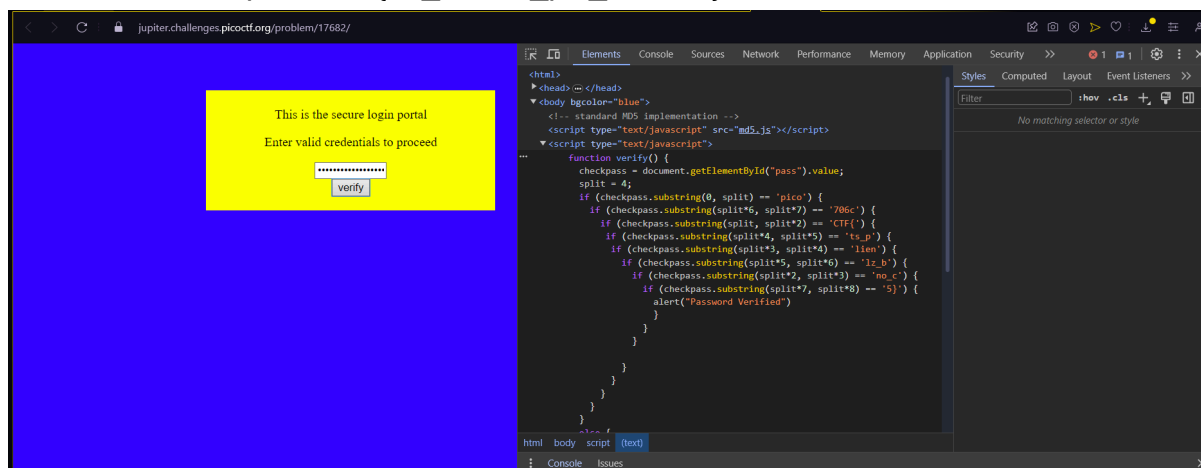
Below the table, it says 'Select a cookie to preview its value'.

The 'Console' tab is also visible, showing various settings like 'Log XMLHttpRequests', 'Eager evaluation', 'Autocomplete from history', and 'Treat code evaluation as user action'.



## Dont\_use\_client\_side:

This one was really easy, again I inspected the page and I saw in the code that there was a function called verify that checked some substring. I just ordered them and the code was made. `picotCTF{no_clients_plz_b706c5}`



## Who Are You?:

First as always inspected the document. Second I saw a hint in the page that I can only browse through the PicoBrowser so I investigated and saw that I needed to change the user agent to pico Browser. Then I had to change the date because I got a message that it didn't work if it wasn't 2018. Then I needed to change the location to Sweden and finally the language to Swedish as well. It was a hard exercise to understand at first but then it's just adding headers and investigating what does each header does.

