


# HuntressCTF-Baking-Challenge-ZtheAPT

Once you connect to the challenge machine and receive the web link, navigate to the web page:



Baking

50 points - Warmups - 298 Solves - easy

Expires in: 00:29:31

+ Extend

Reset (9/95)

Stop


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Do you know how to make cookies? How about HTTP flavored?

Press the **Start** button in the top-right to begin this challenge.

Connect with:

- <http://chal.ctf.games:30484>



flag{not\_really\_tho}

Submit

It is a Baking "cookies" website:

EZ Bake Oven

Doughnuts (30 minutes)

Cook

Brownie (50 minutes)

Cook

Carrot Cake (40 minutes)

Cook

Muffins (15 minutes)

Cook

Chocolate Cake (90 minutes)

Cook

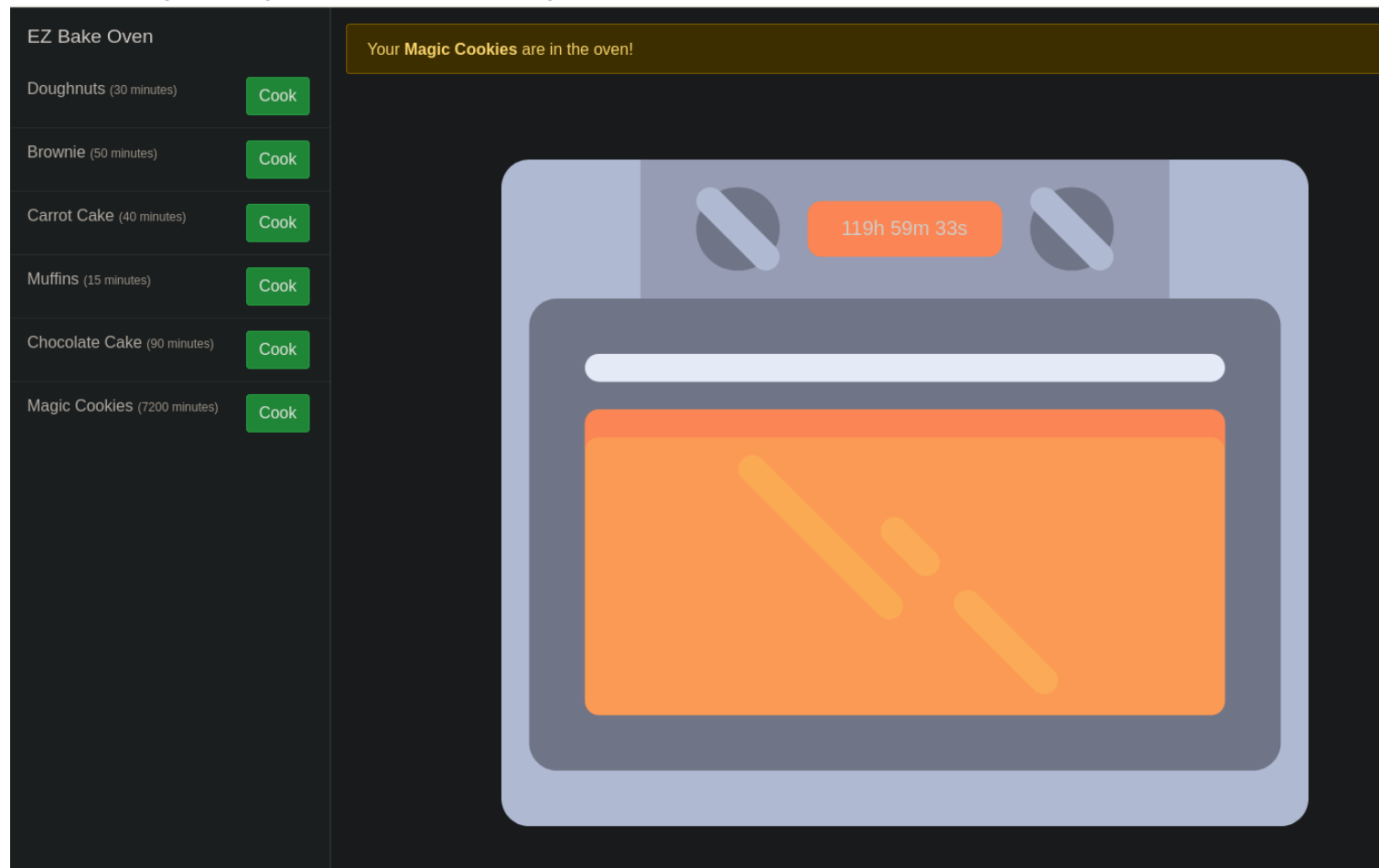
Magic Cookies (7200 minutes)

Cook

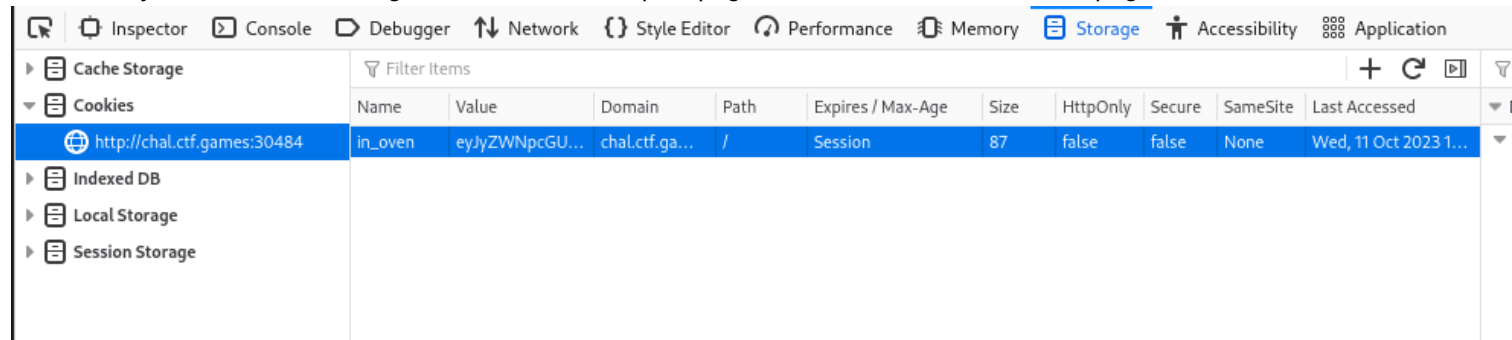
Nothing in the oven yet, start cooking something!

0h 0m 0s

When choosing the "Magic Cookies" selection, we get a counter with 120 hours:



With the key word "cookies" being used, I moved to inspect page to examine the cookie of the page:



Taking the cookie value from the inspect page area into Cyberchef, I decoded the string using "From Base64" as the recipe:

The screenshot displays the CyberChef web application interface. On the left, the 'Recipe' panel is active, showing the 'From Base64' recipe selected. Below it, the 'Alphabet' dropdown is set to 'A-Za-z0-9+/' and the 'Remove non-alphabet chars' checkbox is checked. The main 'Input' panel on the right contains a long Base64-encoded string: 'eyJyZWNpcGUiOiAiTWFnawMgQ29va2llcyIsICJ0aw1lIjogIjEwLzExLzIwMjMsIDE10jA40jQ3In'. The 'Output' panel at the bottom right shows the decoded result as a JSON object: `{"recipe": "Magic Cookies", "time": "10/11/2023, 15:08:47"}`. The interface includes various icons for saving, copying, and deleting recipes, as well as status information like start/end positions and lengths.

Upon further research, I found a time calculator we can make use of. Taking the time in the decoded string, we can subtract the given baking time. This should help it finish sooner without waiting for the full baking time:

[home](#) / [other](#) / [time calculator](#)

## Time Calculator

This calculator can be used to "add" or "subtract" two time values. Input fields can be left blank, which will be taken as 0 by default.

### Result

11 days 14 hours 39 minutes 50 seconds  
- 0 days 119 hours 55 minutes 0 seconds  
= 6 days 14 hours 44 minutes 50 seconds  
= 6.614468 days  
= 158.74722 hours  
= 9,524.833 minutes  
= 571,490 seconds

Day	Hour	Minute	Second
<input type="text" value="11"/>	<input type="text" value="15"/>	<input type="text" value="08"/>	<input type="text" value="0"/>
<input type="radio"/> Add+ <input checked="" type="radio"/> Subtract-			
<input type="text" value="0"/>	<input type="text" value="119"/>	<input type="text" value="43"/>	<input type="text" value="0"/>
=			
<input type="text" value="6"/>	<input type="text" value="14"/>	<input type="text" value="44"/>	<input type="text" value="50"/>
<input type="button" value="Calculate"/>		<input type="button" value="Clear"/>	

### Other Calculators

<a href="#">Age</a>	<a href="#">Date</a>
<a href="#">Time</a>	<a href="#">Hours</a>
<a href="#">GPA</a>	<a href="#">Grade</a>
<a href="#">Height</a>	<a href="#">Concrete</a>
<a href="#">IP Subnet</a>	<a href="#">Bra Size</a>
<a href="#">Password Generator</a>	<a href="#">Dice Roller</a>
<a href="#">Conversion</a>	<a href="#">More Other Calculators</a>
<a href="#">Financial</a>   <a href="#">Fitness and Health</a>   <a href="#">Math</a>   <a href="#">Other</a>	

With the calculated time, change the string and encode it with "To Base64" recipe:

**Recipe**

**From Base64**

Alphabet  
A-Za-z0-9+/=

☒ Remove non-alphabet chars

**To Base64**

Alphabet  
A-Za-z0-9+/=

**Input**

length: 59  
lines: 1

```
{"recipe": "Magic Cookies", "time": "10/11/2023, 14:44:47"}
```

**Output**

time: 0ms  
length: 80  
lines: 1

```
eyJyZWNPcGUiOiAiTWFnawMgQ29va2llcyIsICJ0aw1lIjogIjEwLzExLzIwMjMsIDE0OjQ0OjQ3In0=
```

After editing and encoding the string, we will copy the output string and place it into the cookies area of the inspect page.

Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application

Cache Storage

Cookies

http://chal.ctf.games:30484

Name	Value	Domain	Path	Expires / Max-Age	Size	HttpOnly	Secure	SameSite	Last Accessed
in_oven	eyJyZWNPcGUiOiAiTWFnawMgQ29va2llcyIsICJ0aw1lIjogIjEwLzExLzIwMjMsIDE0OjQ0OjQ3In0=	chal.ctf.ga...	/	Session	87	false	false	None	Wed, 11 Oct 2023 1...

Indexed DB

Local Storage

Session Storage

Once you pasted the string and refresh the page, the cookies finish baking and we receive the flag!!!:

EZ Bake Oven

Doughnuts (30 minutes)

Cook

Brownie (50 minutes)

Cook

Carrot Cake (40 minutes)

Cook

Muffins (15 minutes)

Cook

Chocolate Cake (90 minutes)

Cook

Magic Cookies (7200 minutes)

Cook

Your Magic Cookies are done! Be careful they are hot! Congratulations  
flag{c36fb6ebdbc2c44e6198bf4154d94ed4}

0h 0m 0s

Inspect

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Filter C