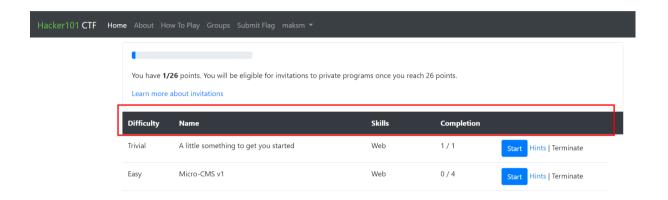
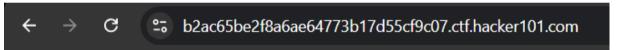
Hacker101 CTF - Micro-CMS v1 (Easy)

Hacker101 CTF challenges can be found here: https://ctf.hacker101.com/ctf The flags are hidden so you can have a go at doing this yourself!



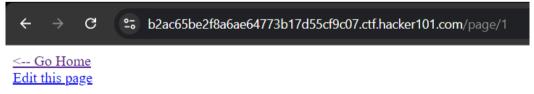
This challenge has 4 flags to capture. Upon starting the level, I am introduced to a page with 4 links:



- <u>Testing</u>
- Markdown Test

Create a new page

I clicked on the testing link. I was directed to the page below. I have an option to edit the page. I also noticed a change in the url to /page/1

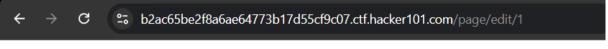


Testing

Woo

Testing out this new micro-CMS!

I clicked on Edit this page. I am introduced to fields where I can edit the page. I edI



<-- Go Home

Edit Page

Title:	Testing	
#Woo		
Testing out this new micro-CMS!		
Save		
<u>Markdown</u> is supported, but scripts are not		

I tested the page by editing the fields and pressing the save button to see the changes.



Test

Test

The change worked and redirected me back to the page. The fields were also updated to how I made the changes in Edit this page. I pressed to Go Home at the top to test more links out. I pressed the Markdown Test link, and it navigated me to the page below.

<-- Go Home</p>
Edit this page

Markdown Test

Just testing some markdown functionality.



Some button

The image does not load, and the button does not do anything. I also pressed Edit this page to see the contents.



<-- Go Home

Edit Page



I went back Home again and pressed on Create a new page link.

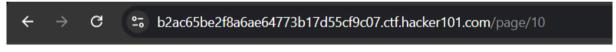
<-- Go Home

Create Page



Markdown is supported, but scripts are not

I entered text in the fields to create the page and pressed create. A page was created:



<-- Go Home</p>
Edit this page

fsdf

sfsdfs

I noticed the url having the extension /page/10. The previous pages had 1 and 2, so I checked for pages 3-9 to see if I can access them by modifying the url.

All pages besides number 6 had this text:



Not Found

The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.

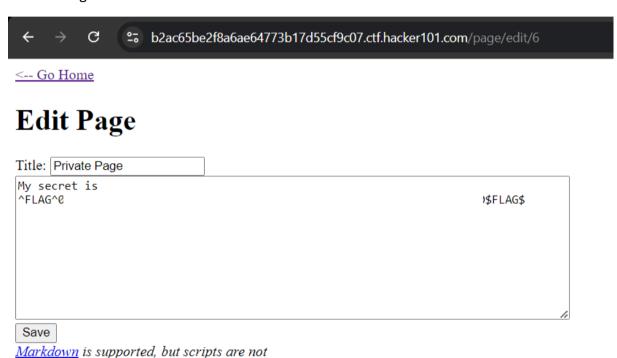
Number 6 had the forbidden text resulting in potential access to the server:



Forbidden

You don't have the permission to access the requested resource. It is either read-protected or not readable by the server.

Pages can be edited through the url /page/edit/ so I tried to edit page 6 and managed to find the first flag:



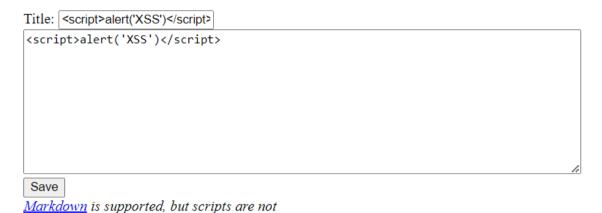
I did a simple sql injection by adding 'to the end of the urls. For /page/edit/"number", I found another flag. I then added 'or1=1 injection and the same flag appeared.



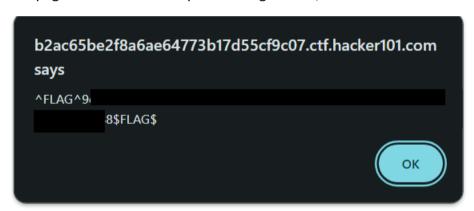
Since I can input and submit fields to either create a page or edit it, I tried an XSS script to see if the fields can be exploited.

<-- Go Home

Edit Page

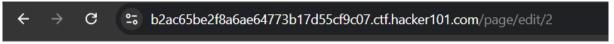


The page saved and when I pressed to go home, I received an alert with the flag.



Lastly, I returned to the page containing the button that has no functionality. The page mentions that Markdown is supported but scripts aren't. I edited the page and added

payloads to bypass the markdown filter and execute XSS:



<-- Go Home

Edit Page



Markdown is supported, but scripts are not

I tried many payloads and saved the page and clicked the button to see if the script responded successfully. The payload in the image above worked and provided an alert. I then inspected the button using inspect element on the browser and I found the flag in the source code:

