



OWASP Juice Shop *Tutorial Series*

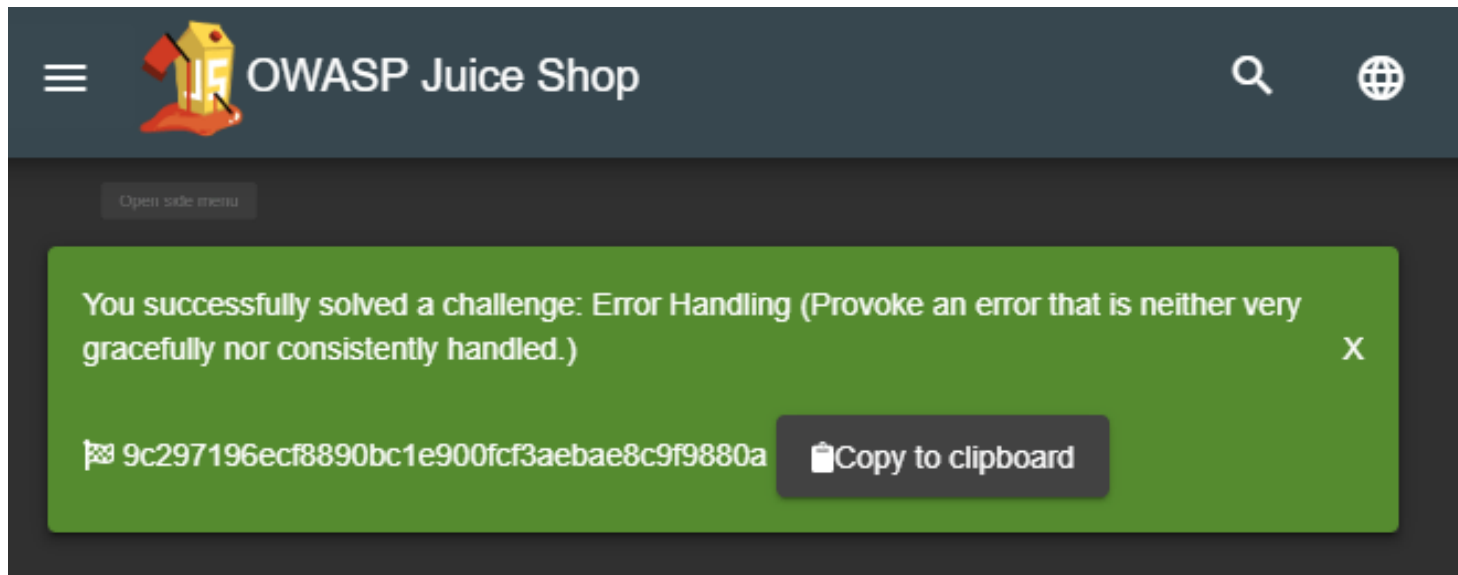
Björn Kimminich

Capture the Flag

Set up a CTF from scratch in no time

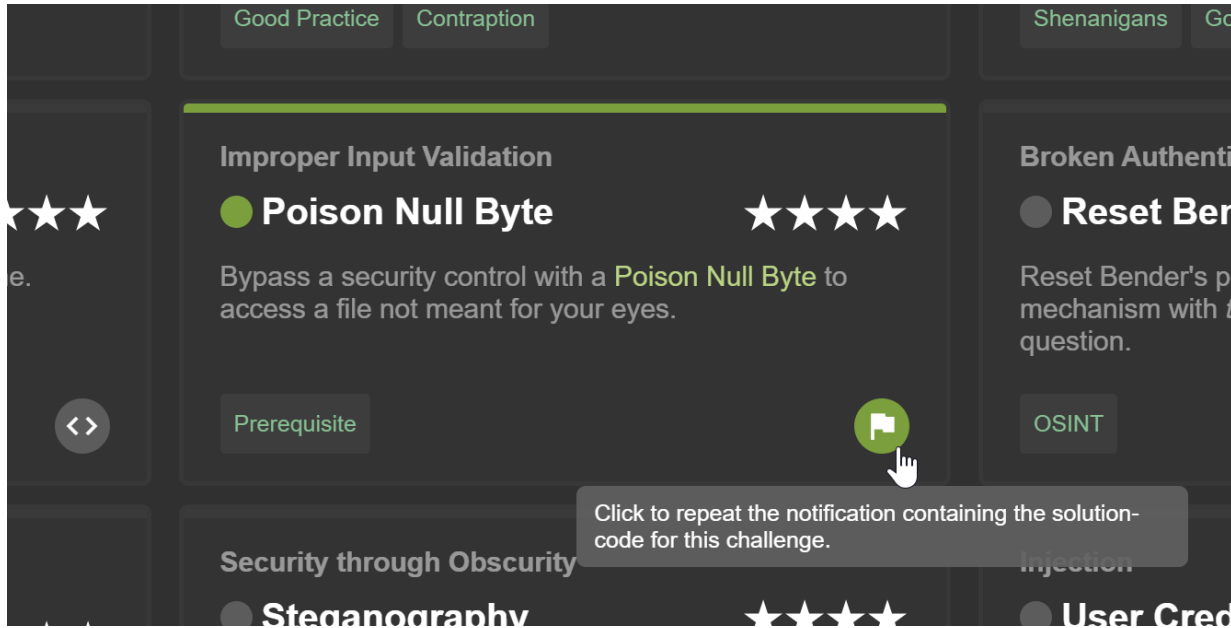
Juice Shop can emit flag codes for solved challenges

- Flag codes are shown when property `ctf.showFlagsInNotifications` is true



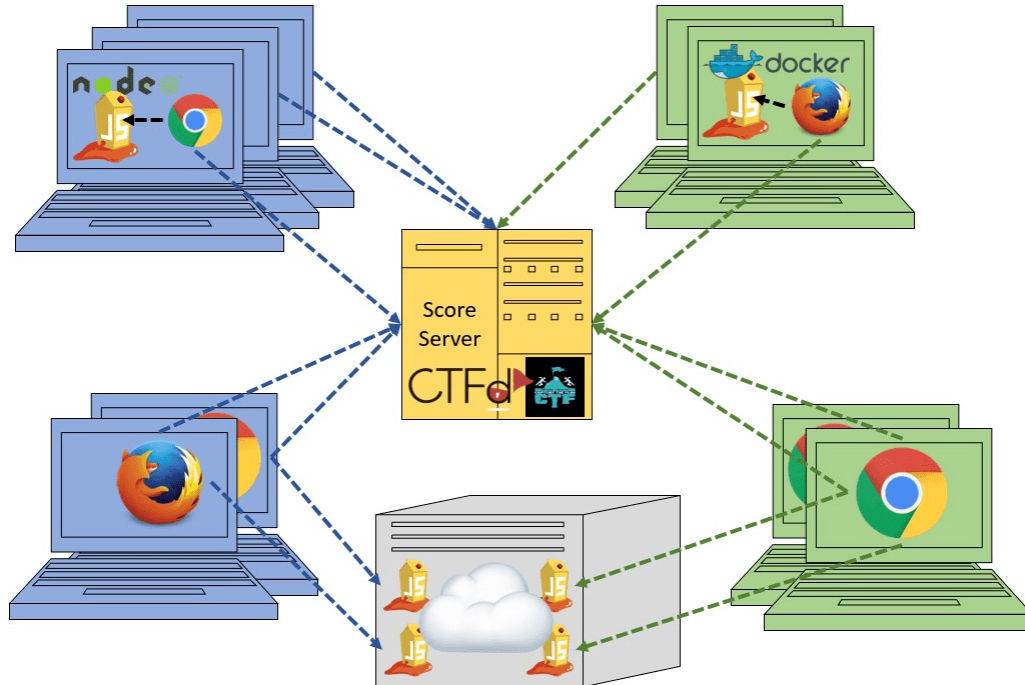
Missed flag codes can be retriggered via Score Board

- Clicking the Flag-button next to a solved challenge will retrigger the corresponding notification



You need a central CTF server to actually compete

- Any number of Juice Shop instances can "play" on the same CTF server, ...
- ...but you need to make sure that the CTF server accepts their flag codes



How to not add Juice Shop challenges manually

- You can use `juice-shop-ctf-cli` to prepare your CTF server instead

```
Windows PowerShell
PS C:\temp> npm i -g juice-shop-ctf-cli
C:\Program Files\nodejs\juice-shop-ctf -> C:\Program Files\nodejs\node_modules\juice-shop-ctf-cli\bin\juice-shop-ctf.js
+ juice-shop-ctf-cli@8.2.3
updated 1 package in 10.879s
PS C:\temp> juice-shop-ctf

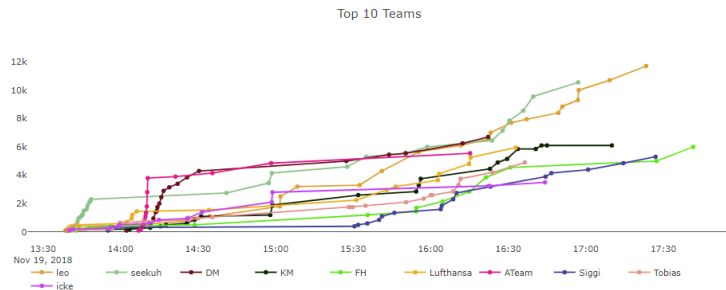
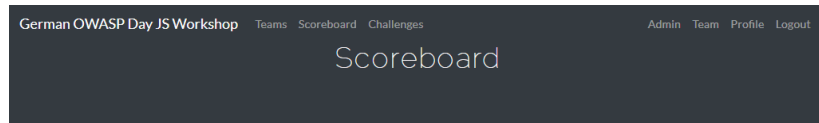
Generate OWASP Juice Shop challenge archive for setting up CTFd 2.x, FBCTF or RootTheBox score server
? CTF framework to generate data for? RootTheBox
? Juice Shop URL to retrieve challenges? https://juice-shop.herokuapp.com
? Secret key <or> URL to ctf.key file? https://raw.githubusercontent.com/bkimminich/juice-shop/master/ctf.key
? Insert a text hint along with each challenge? Free text hints
? Insert a hint URL along with each challenge? Paid hint URLs
? Insert a code snippet as hint for each challenge? No hint snippets

Full Game Export written to C:\temp\OWASP_Juice_Shop.2021-11-22.RTB.xml

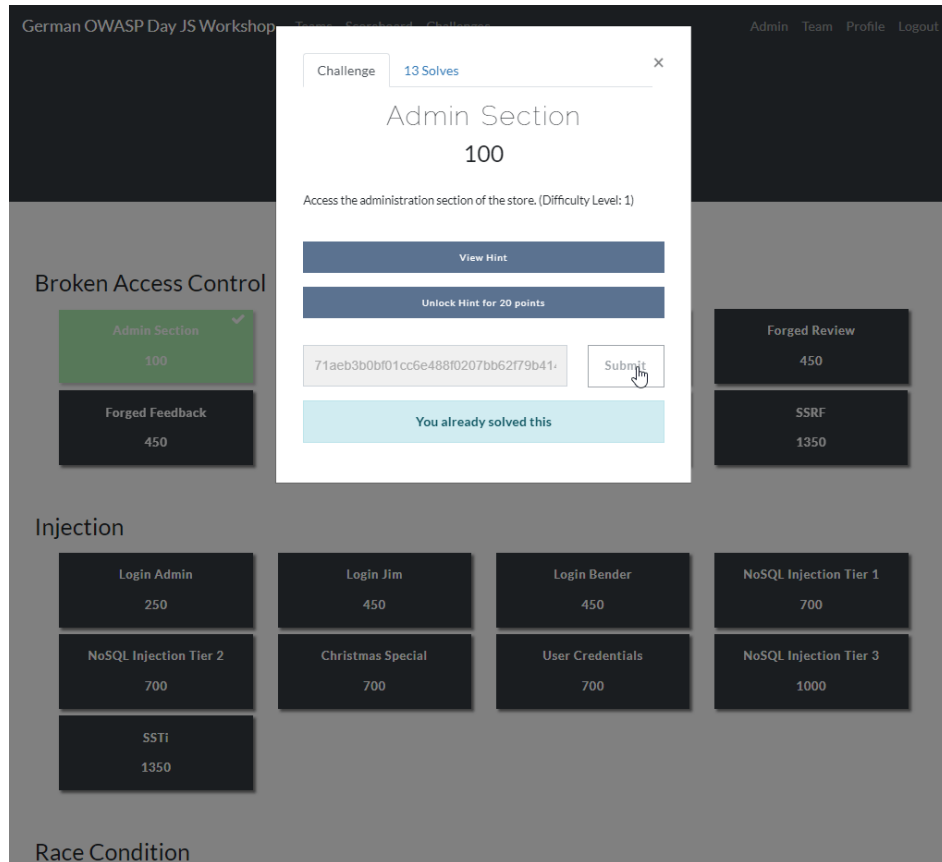
For a step-by-step guide to import this file into RootTheBox, please refer to
https://pwning.owasp-juice.shop/part1/ctf.html#running-rootthebox

PS C:\temp>
```

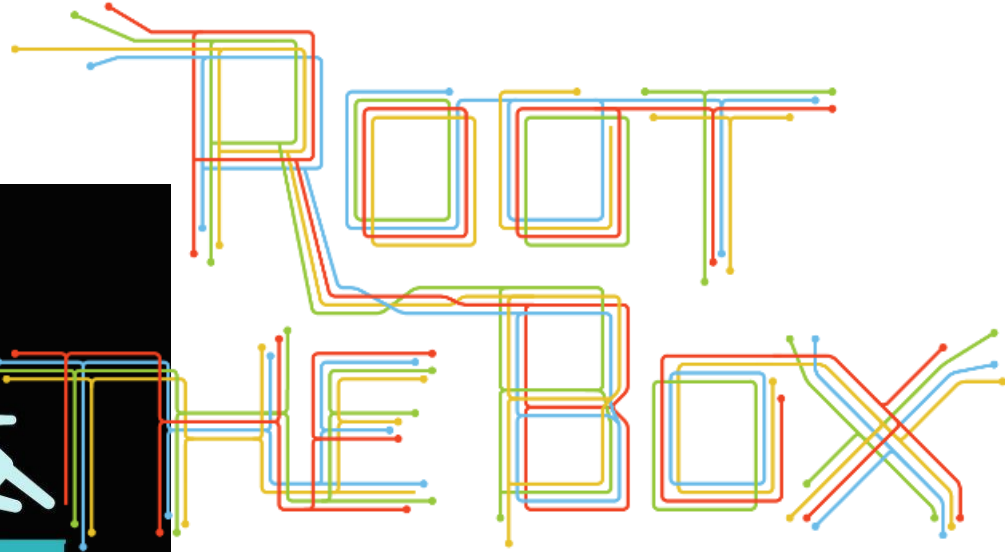
How a running CTF on the server (here: CTFd 2.x)



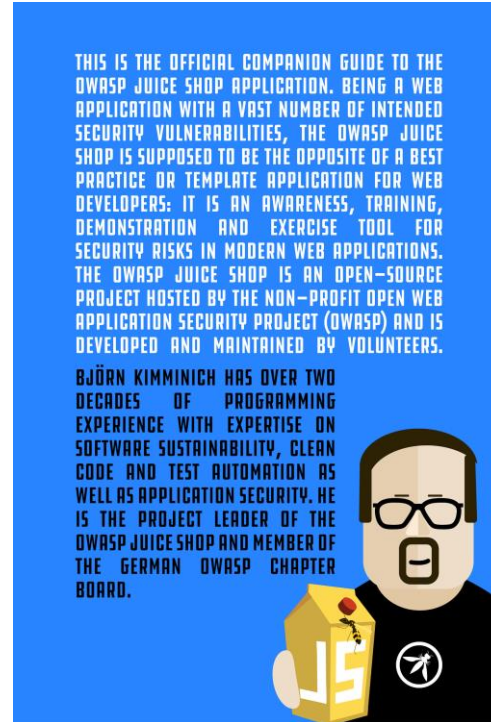
Place	Team	Score
1	leo	11700
2	seekuh	10550
3	DM	6700
4	KM	6100
5	FH	6000
6	Lufthansa	5950
7	ATeam	5550



Juice Shop CTF CLI supports three CTF servers



Full documentation on hosting CTFs with Juice Shop



<https://leanpub.com/juice-shop>

<https://pwning.owasp-juice.shop/companion-guide/latest/part4/ctf.html>



Feedback? Questions? Ideas?