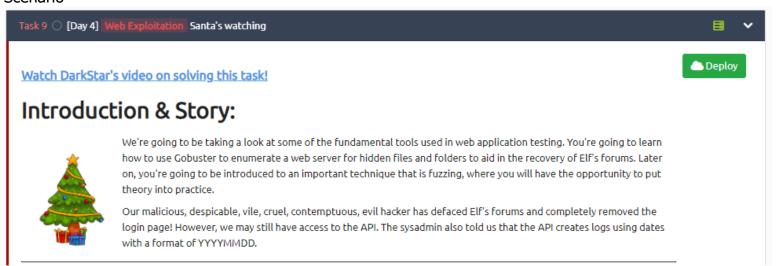
## Day 4 - Santa's Watching

#### Scenario



### Challenge

Deploy both the instance attached to this task (the green deploy button) and the AttackBox by pressing the blue "Start AttackBox" button at the top of the page. After allowing 5 minutes, navigate to the website (MACHINE\_IP) in your AttackBox browser.

It is up to you to decide if you wish to create the wordlist yourself or use a larger wordlist located in /opt/AoC-2020/Day-4/wordlist on the AttackBox. The wordlist is also available for download if you are using your own machine.

In summary, use the tools and techniques outlined in today's advent of cyber; search for the API, find the correct post and bring back Elf's forums!

#### How to approach the challenge

Since we know there's theoretically an API directory we can use gobuster to enumerate the website and see if we can find anything. Then assuming we do find something, we should investigate it for interesting files. Let's say we then find what seems to hold the logs, we know we're searching by date, so we can infer that there's a good chance that we'll be using the date parameter to interact with the API. We also know that the API takes a date in the form of YYYYMMDD. A wordlist in that format can be found in the hint for this task, although if you want an extra challenge, you can try and build a wordlist in that format yourself.

Finally, API's may not return data if the proper parameters aren't passed, so with that knowledge, we can use the options in wfuzz to filter out parameters that don't return anything.

With all that in mind, we should be able to get a flag.

wordlist = available for download (tryhackme.com)

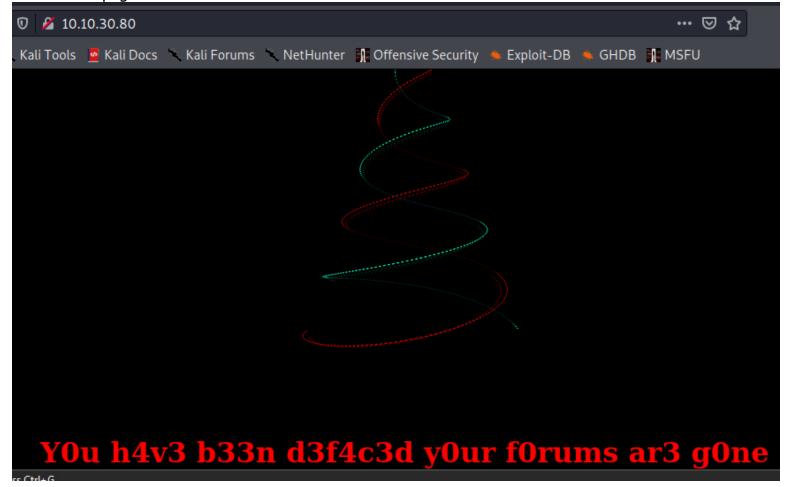
Question: Given the URL "http://shibes.xyz/api.php", what would the entire wfuzz command look like to query the "breed" parameter using the wordlist "big.txt" (assume that "big.txt" is in your current directory)

wfuzz cheat sheet

Options	Description
-C	Shows the output in color
-d	Specify the parameters you want to fuzz with, where the data is encoded for a HTML form
-Z	Specifies what will replace FUZZ in the request. For example -z file,big.txt . We're telling wfuzz to look for files by replacing "FUZZ" with the words within "big.txt"
hc	Don't show certain http response codes. I.e. Don't show <b>404</b> responses that indicate the file <i>doesn't</i> exist, or " <b>200</b> " to indicate the file <i>does</i> exist
hl	Don't show for a certain amount of lines in the response
hh	Don't show for a certain amount of characters

- wfuzz -c -z file,big.txt http://shibes.xyz/api.php?breed=FUZZ

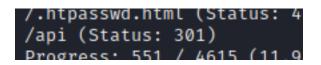
the root webpage



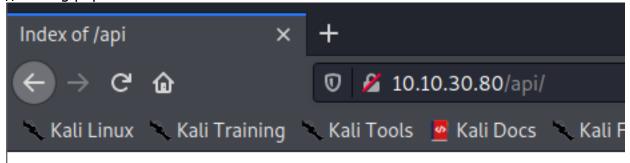
perform api directory searching using gobuster

```
spokuster dir -u http://10.10.30.80 -w /usr/share/wordlists/dirb/common.
txt -x txt,php,html
```

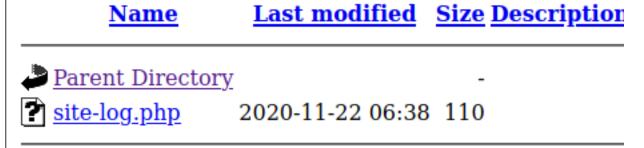
found the /api directory



/api //site-log.php ?



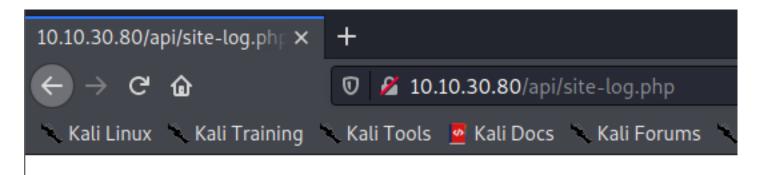
# Index of /api



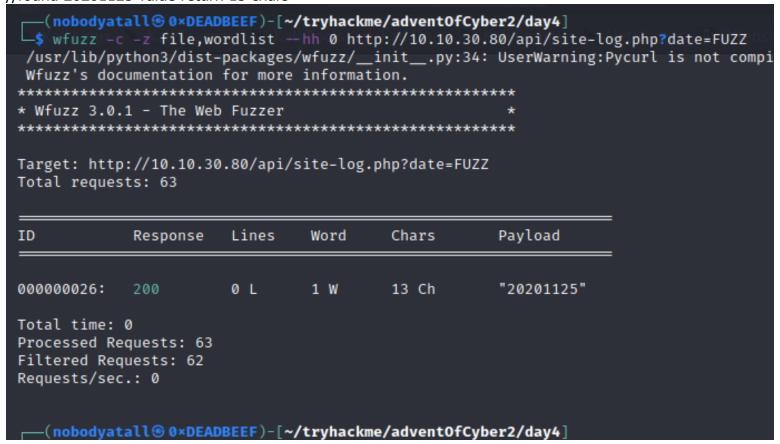
Apache/2.4.29 (Ubuntu) Server at 10.10.30.80 Port 80

Question: Use GoBuster (against the target you deployed -- not the shibes.xyz domain) to find the API directory. What file is there?
-sitelog.php

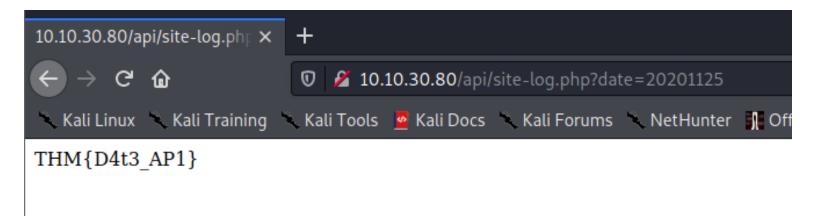
it's empty here



perform fuzzing on date GET parameter using the wordlist downloaded from the challenge room //found 20201125 value return 13 chars



& there's our flag!



Question: Fuzz the date parameter on the file you found in the API directory. What is the flag displayed in the correct post?

