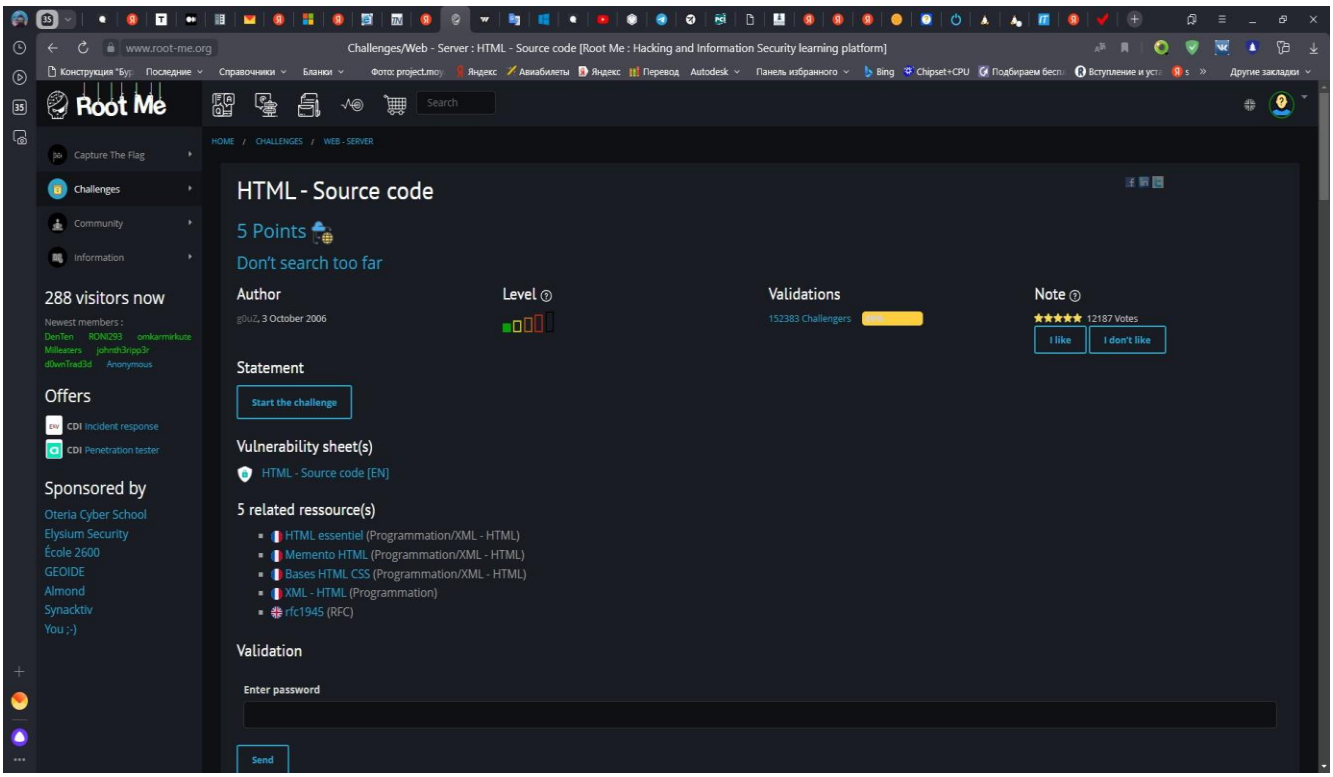
Web Application Security Testing -> **Report for the 20231211 lesson 2**

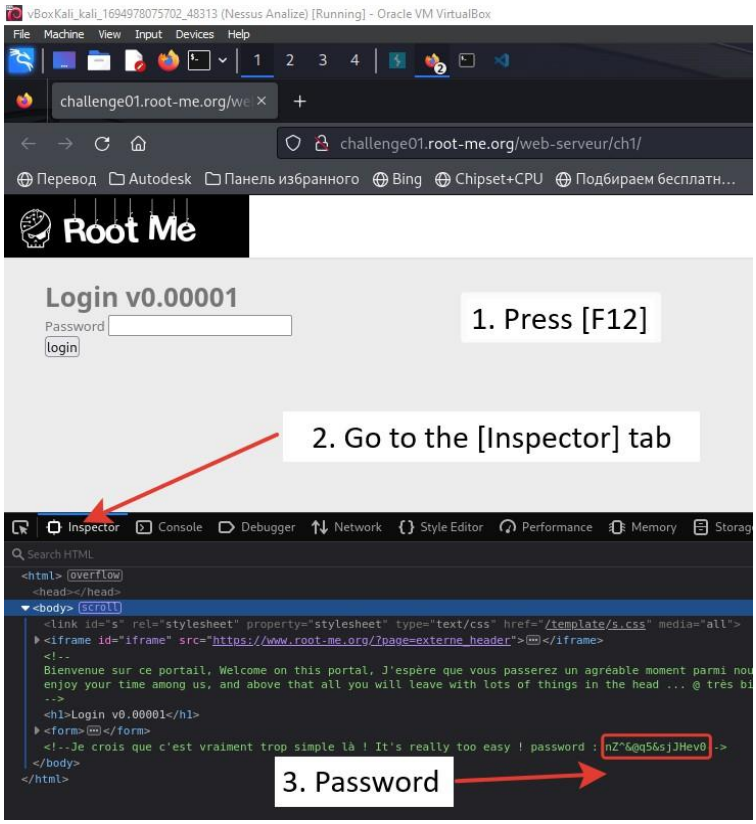
Content

Root Me (HTML - Source code)

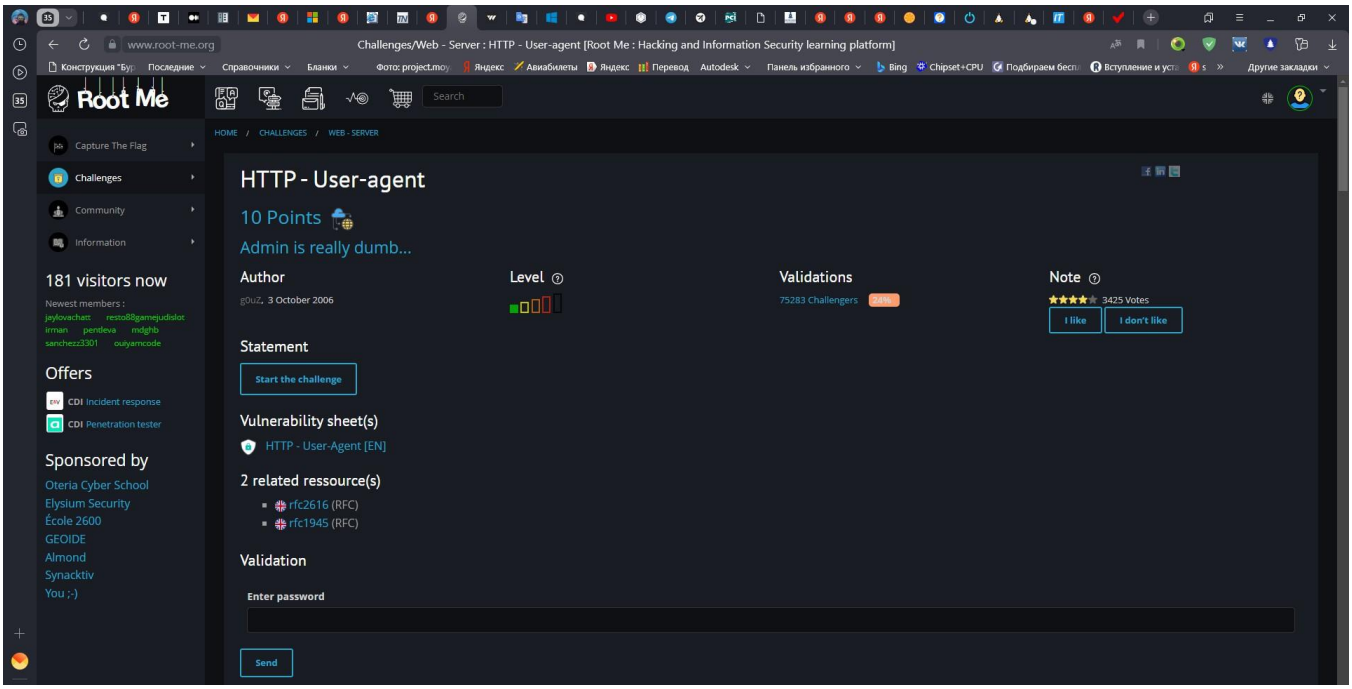


Solution:

1. Press the `[F12]` key to open the developer tools.
2. Go to the `[Inspector]` tab to research the source code.
3. The html page contains a commented out password.

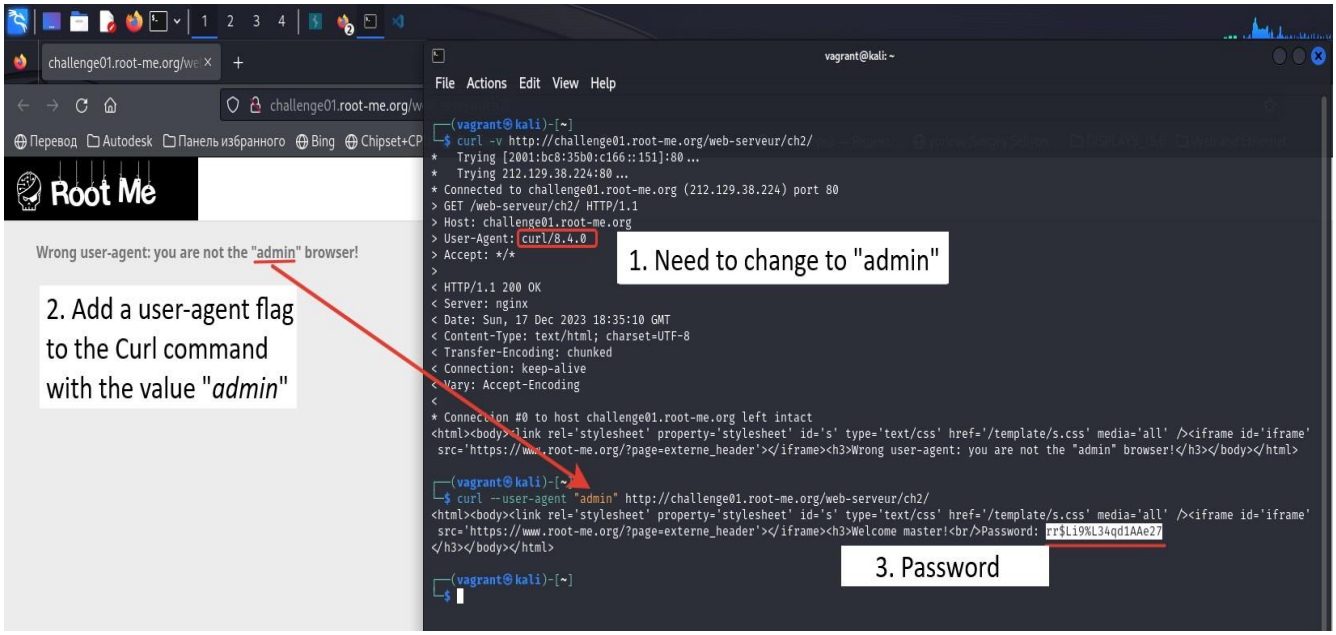


Root Me (HTML - User-agent)

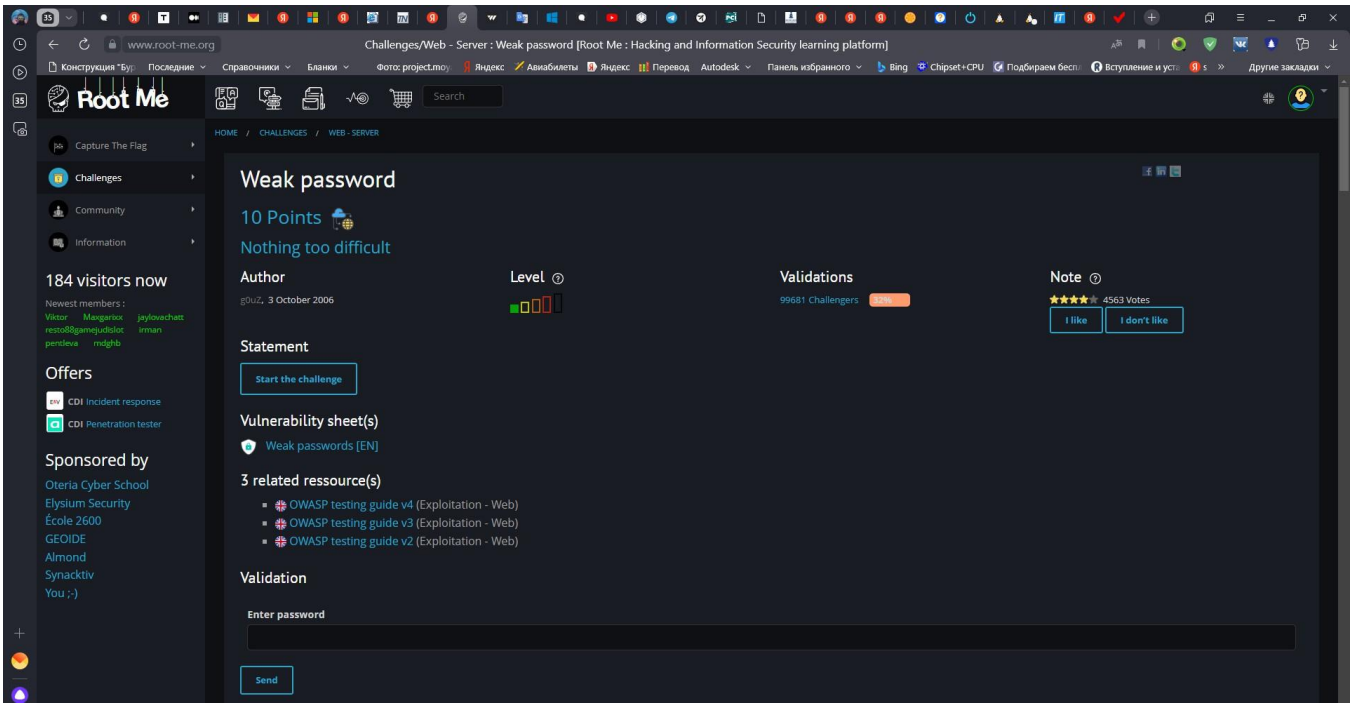


Solution

1. On the challenge page there is a hint that we are using the wrong browser.
2. If we look at the server response, we can verify that the User-agent contains `curl/8.4.0`, but we must use the browser "*admin*". Of course, to solve this problem, we should change the User-Agent request header.
3. Add the **--user-agent** flag with the modified header "*admin*".
4. Collect the flag

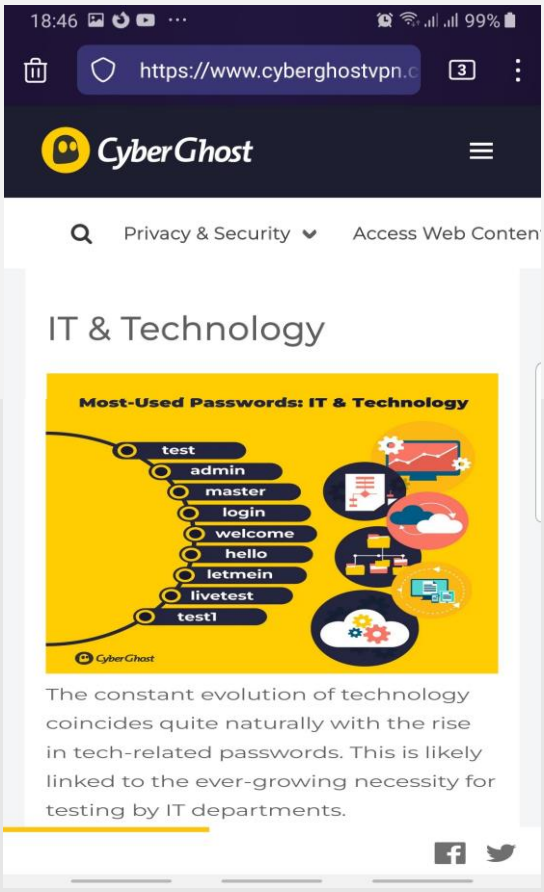


Root Me (Weak password)



This challenge can be solved in 2 ways:

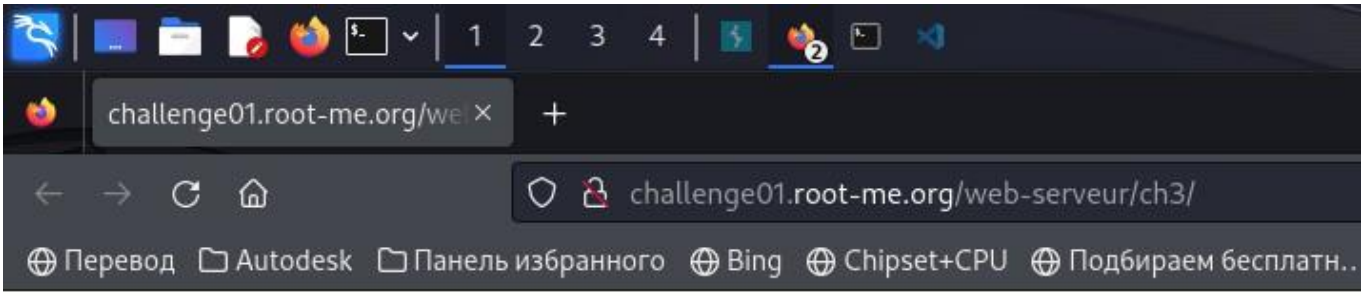
1. Brute force method
2. Use the lists of "*Most-used Passwords*"

> **NOTE:**
>
> For example, I used 10 lists from CyberGhost
>
> 
>

Honestly, every time the first thing I do is try the following pairs:

- `admin`/`''`,
- `admin`/`admin`, <- valid
- `admin`/`password`,
- `admin`/`password1`,
- `admin`/`password123`,
- `admin`/`passw0rd`,
- `admin`/`passwd`,
- `root`/`''`,
- `root`/`root`,
- `root`/`toor`,
- `root`/`password`,
- `root`/`passw0rd`,
- etc.

After manually entering the username - `admin` and password - `admin` I logged in.

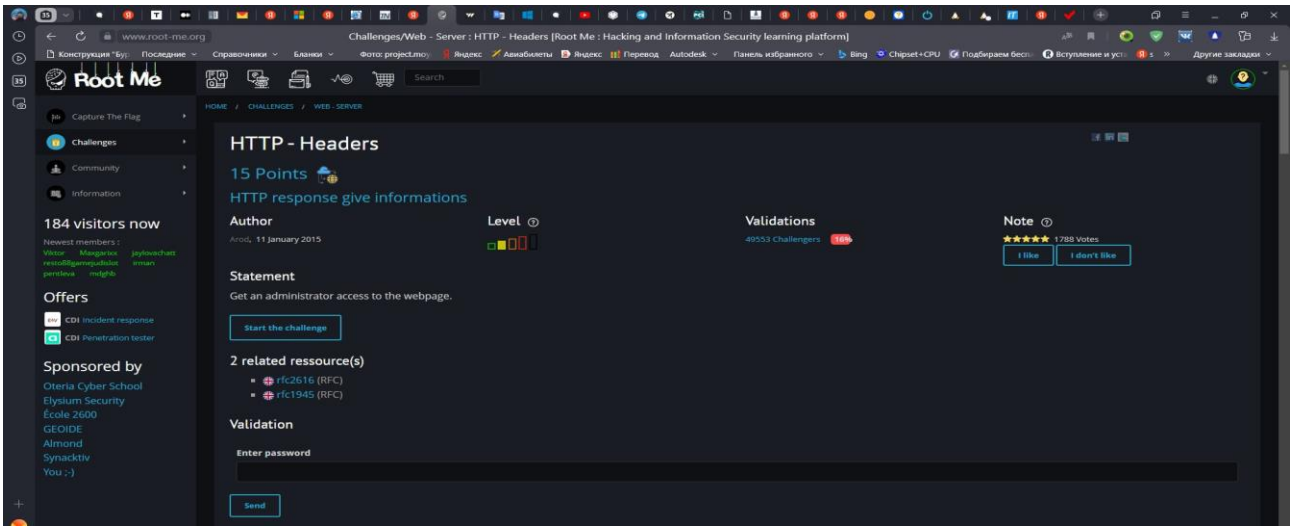


Bien joué, vous pouvez utiliser ce mot de passe pour valider le challenge

User: *admin* **password:** *admin*

Well done, you can use this password to validate the challenge

Root Me (HTTP - Headers)

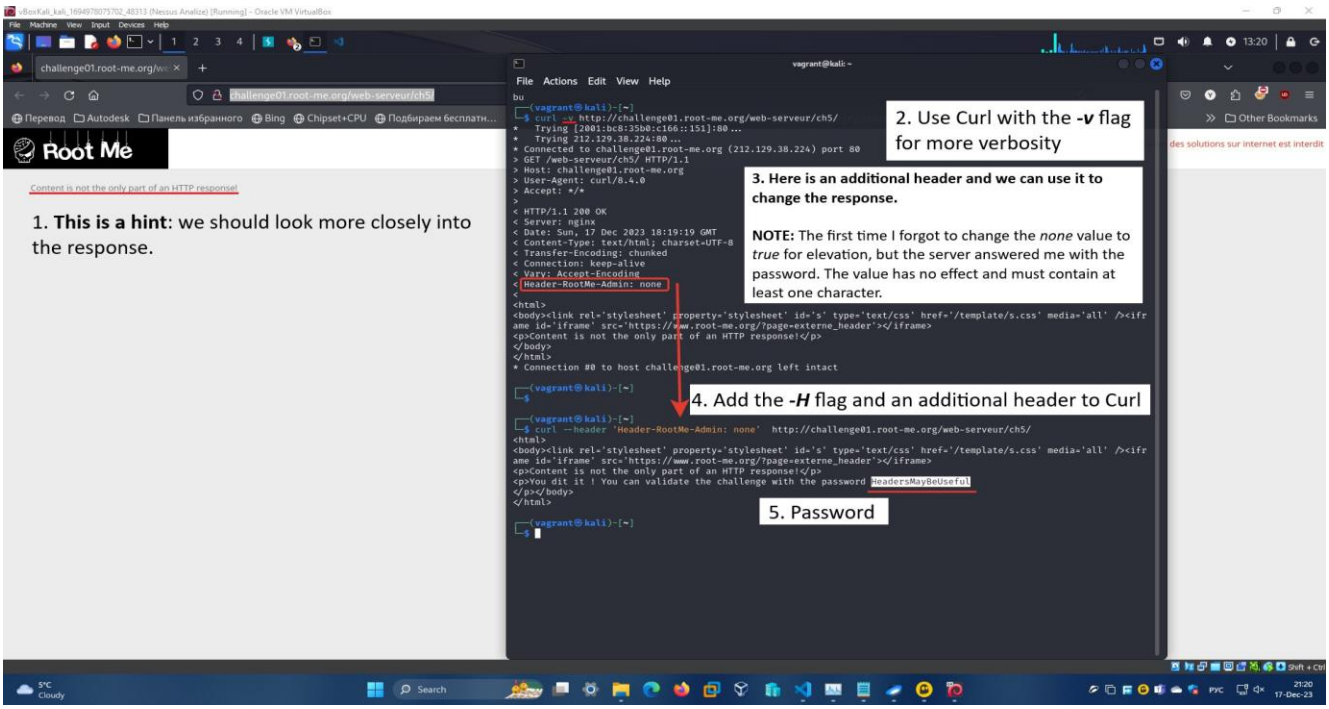


Solution

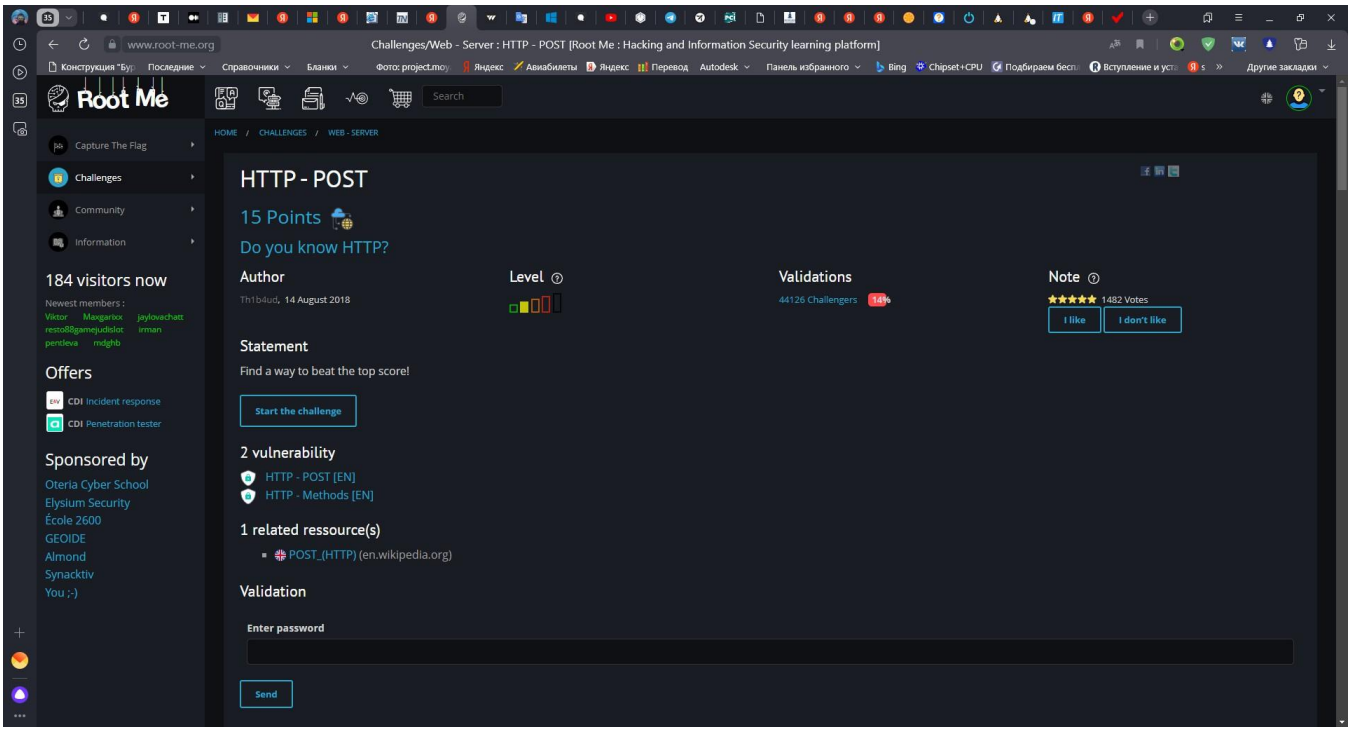
1. On the challenge page there is a hint that the content isn't only part of an HTTP response.
2. Use Curl with the **-v** flag for more verbosity.
3. Here is an additional header and we can use it to change the response.
4. Add the **-H** or **--header** flag to modify the additional header with the value of `Header-RootMe-Admin: true` to Curl.

> **NOTE:**
>
> The first time I was in a hurry and copied a line from the answer, I forgot to change the `none` value to `true` (*for elevation*) and press `[Enter]`. This is amazing, the server responded to me with a password page. I sent a few additional requests and found that the value had no effect and must contain at least one character.

5. The response contains the password.



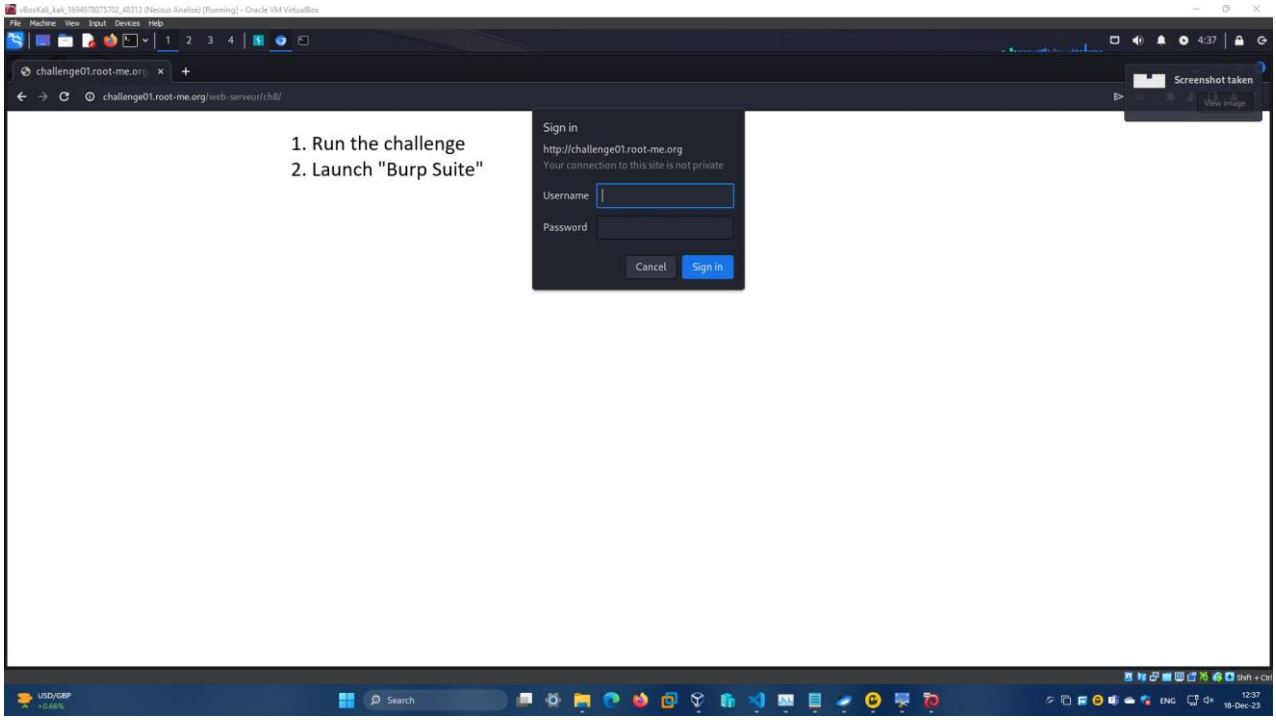
Root Me (HTTP - POST)



Solution

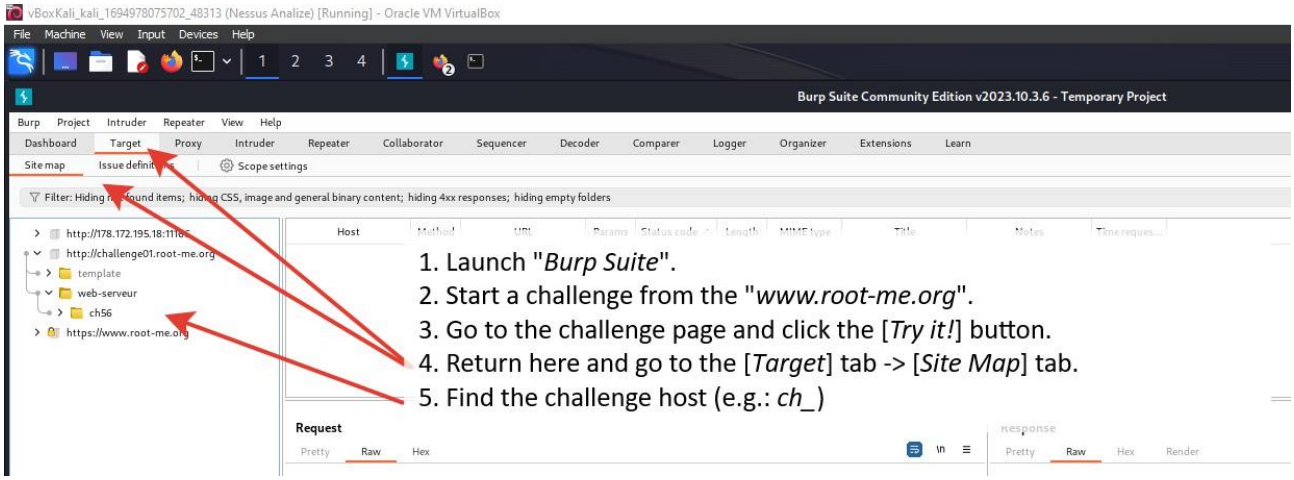
> **NOTE:**
>
> To solve this problem, Curl is not enough, you need to use a proxy (*e.g.: Burp Suite*).

1. Run the challenge
2. Launch "*Burp Suite*"

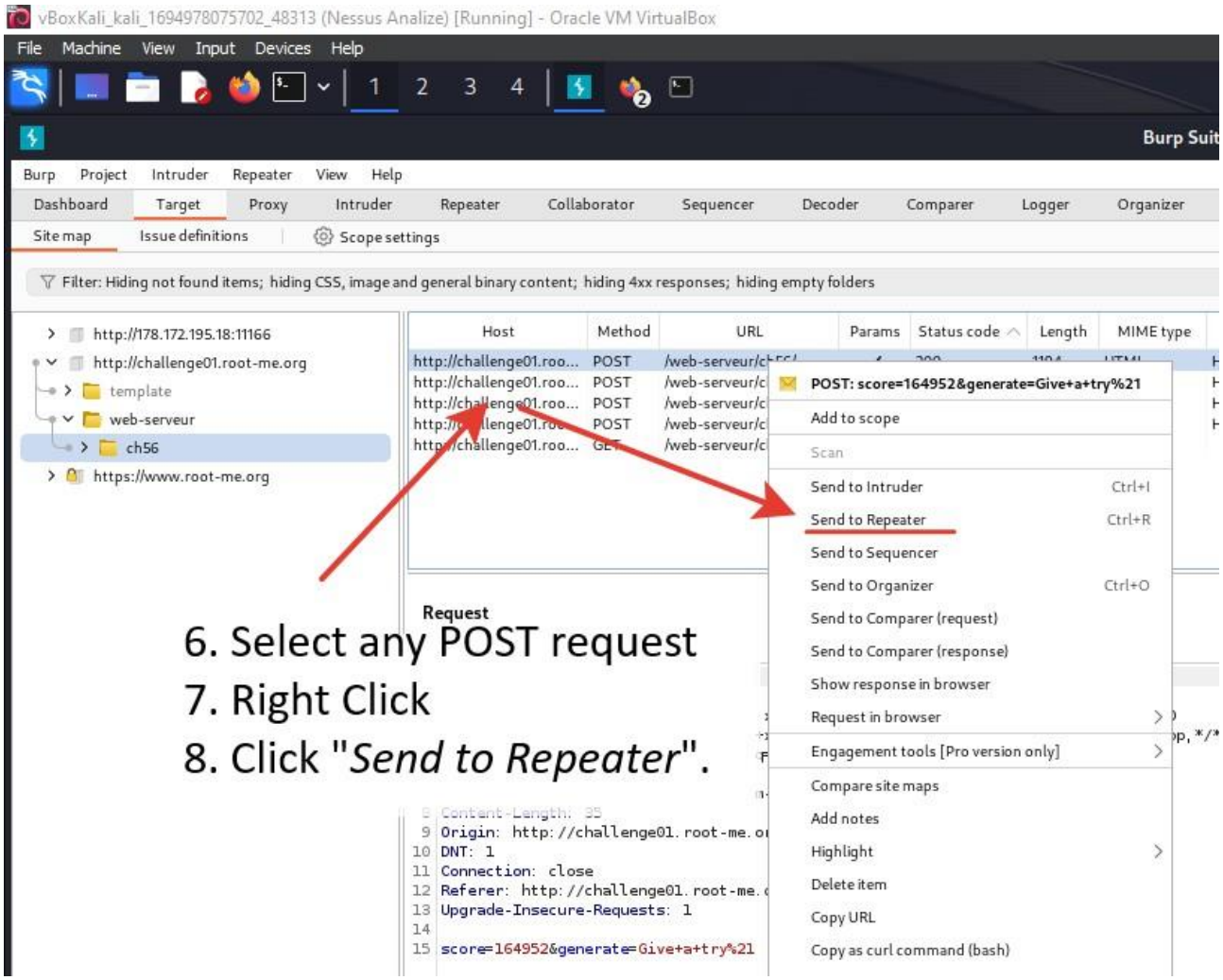


3. Start a challenge from the "<*www.root-me.org*>".
4. Go to the challenge page and click the `[Try it!]` button.

5. Return here and go to the `[Terget]` tab -> `[Site Map]` tab.
6. Find the challenge host (*e.g.: ch_*)



7. Select any POST request
8. Right click
9. Click "*Send to Repeater*"



10. Go to the `[Repeater]` tab
11. Change the value to *1000000*

12. Click the [Send] button
13. Collect the flag