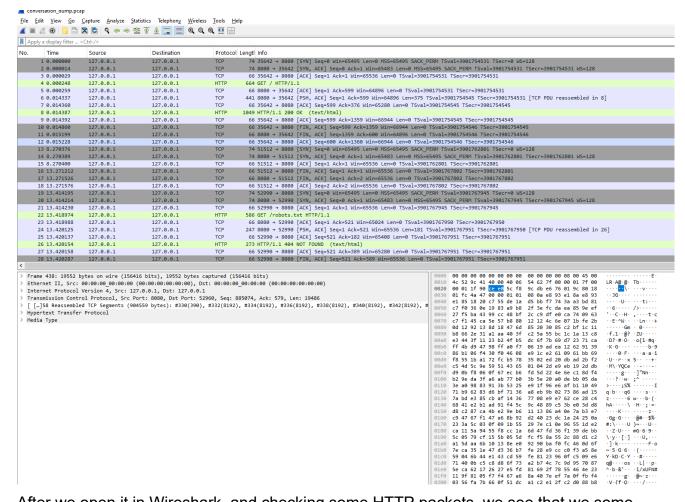
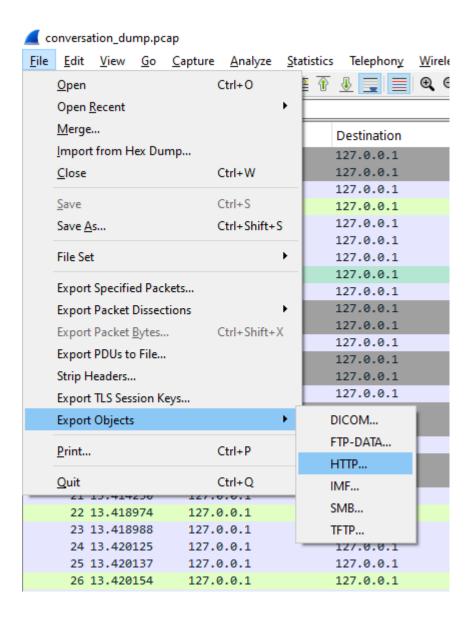
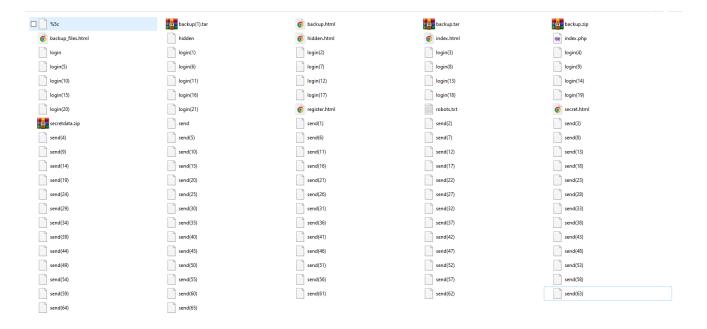
## In this challenge we are given a .pcap file



After we open it in Wireshark, and checking some HTTP packets, we see that we some some HTML files and others

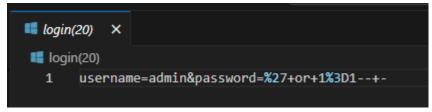


After this we export the HTTP objects to a now folder



We have those files

The login, login(2), login (4) and so on (with even numbers) are a hacker's tries to log in with the last one being successful after doing an injection



```
<>> %5c
      <!DOCTYPE html>
      <html lang="en"
       <meta charset="UTF-8">
        <title>BlackVault | 68b36d42880c527fb70086b1b97f4f34e49bc0d538f52607ec4009c552c2a63b.onion</title>
         body { background: ☐ #111; color: ■ #eee; font-family: 'Courier New', monospace; padding:20px; max-width:800px; margin:auto; }
         a { color: ■#4caf50; text-decoration:none; }
          a:hover { text-decoration:underline;
         h1 { color:□#4caf50; margin-bottom:.5em;
          .footer { margin-top:2em; font-size:.9em; color: ■ #888; }
       <h1>Welcome to BlackVault</h1>
        <pm>68b36d42880c527fb70086b1b97f4f34e49bc0d538f52607ec4009c552c2a63b.onion: Hidden Archives of Classified Data
        Available endpoints:
         <a href="/admin.html">Admin Login Portal</a>
        <strong>Note:</strong> All access is logged. Unauthorized probing will be detected.
         © 2025 BlackVault Network. All rights reserved.
```

Afterwards, by inspecting the 66 'send' files, we can see a conversation between R1kS and Charon VI:

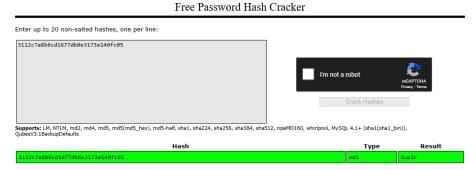
```
*conversation.txt - Notepad
 <u>F</u>ile <u>E</u>dit F<u>o</u>rmat <u>V</u>iew <u>H</u>elp
RikS: Was crawling on their website, 68b36d42880c527fb70086b1b97f4f34e49bc0d538f52607ec4009c552c2a63b.onion, or BlackVault as they call it. Managed to retrieve the:
Charon VI: I will, but something is not right. There are multiple strings, and I don't understand what to do with them. Maybe you can find out. RIKS: Sure. Drop 'em here. Those guys will finally learn Dark Web is not for everyone. They will not even know what struck them.

Charon VI: I will drop 'em one by one.
Charon VI: 5dbc98dcc983a70728bd082d1a47546e
Charon VI: f72c915d8f575a5c0999b5f37b6d99b7
Charon VI: a20bba554bfa1580a9d4aa2b6879ed46
Charon VI: 02beeea47ee3cfe212e6bd843b9ce7d3
Charon VI: 3112c7a8b6cd1677db0e3173e140fc05
Charon VI: 50f4646135205fd4a5417e460cf71d3c
Charon VI: eb22cfa0890a2df3177966854a7176bc
Charon VI: 845f49aa19c955b849d57593bf09d224
Charon VI: 87f63931da79aa969ac4a776ce6cfb03
Charon VI: 9793d9d6041c80f46ad7c1f530c8bbf8
Charon VI: 2f88d89a8f50426a6285449be3286708
Charon VI: 61bd22f017588208a0cacdf9a1a7ca1e
Charon VI: a7623c8b76316e10538782371b709415
Charon VI: c6cca42180caba17e9e6882dc66cc6ee
Charon VI: 7c854900e46ebc5ee5680032b3e334de
Charon VI: ac81882b848b7673d73777ca22908c0d
Charon VI: 4ce97d67963edca55cdd21d46a68f5hh
Charon VI: 4abb62a00bccb775321f2720f2c7750b
Charon VI: 67e00e8ef738fe75afdb42b22e50371e
Charon VI: b561052e5697ee5f1491b5e350fb78e1
Charon VI: That's all.
RIKS: Now, that's a lot of them! I'll see what I can do.
Charon VI: You are on your own. I feel like someone is listening to us right now. We've never met, bye!
R1kS: Yeah, I feel the same. Even this channel ain't secure no more. Bye!
```

Only 33 out of them are 'usable' as the every other is a confirmation (OK)

We can use a MD5 online cracker to find the password for the zip file (it is the only encrypted file)





After this one we can construct a minimal Python script to get the other ones (GPT can help us here)

```
#!/usr/bin/env python3
import hashlib
import string
#1) Hashes are pasted here
raw hashes = """
5dbc98dcc983a70728bd082d1a47546e
f72c915d8f575a5c0999b5f37b6d99b7
a20bba554bfa1580a9d4aa2b6879ed46
02beeea47ee3cfe212e6bd843b9ce7d3
3112c7a8b6cd1677db0e3173e140fc05
50f4646135205fd4a5417e460cf71d3c
eb22cfa0890a2df3177966854a7176bc
845f49aa19c955b849d57593bf09d224
87f63931da79aa969ac4a776ce6cfb03
9793d9d6041c80f46ad7c1f530c8bbf8
2f88d89a8f50426a6285449be3286708
61bd22f017588208a0cacdf9a1a7ca1e
a7623c8b76316e10538782371b709415
c6cca42180caba17e9e6882dc66cc6ee
7c854900e46ebc5ee5680032b3e334de
ac81882b848b7673d73777ca22908c0d
4ce97d67963edca55cdd21d46a68f5bb
4abb62a00bccb775321f2720f2c7750b
67e00e8ef738fe75afdb42b22e50371e
b561052e5697ee5f1491b5e350fb78e1
""".strip().splitlines()
 # 2) Clean up each hash
hashes = [h.strip().lower() for h in raw_hashes]
 # 3) Our candidate alphabet (tweak if your password uses symbols)
charset = string.ascii_letters + string.digits + string.punctuation
def md5hex(s: str) -> str:
   return hashlib.md5(s.encode('utf-8')).hexdigest()
password = ""
for index, target_hash in enumerate(hashes, start=1):
   found_char = None
```

```
1: matched hash → char 'S', password so far: 'S'
2: matched hash → char 'u', password so far: 'Su'
3: matched hash → char 'p', password so far: 'Sup'
4: matched hash → char '3', password so far: 'Sup3'
5: matched hash → char 'r', password so far: 'Sup3r'6: matched hash → char '$', password so far: 'Sup3r$'
7: matched hash → char '3', password so far: 'Sup3r$3'
8: matched hash → char 'c', password so far: 'Sup3r$3c'
9: matched hash → char 'r', password so far: 'Sup3r$3cr'
10: matched hash → char 'e', password so far: 'Sup3r$3cre'
11: matched hash → char '7', password so far: 'Sup3r$3cre7'
12: matched hash → char 'P', password so far: 'Sup3r$3cre7P'
13: matched hash → char '4', password so far: 'Sup3r$3cre7P4'
14: matched hash → char '$', password so far: 'Sup3r$3cre7P4$'
15: matched hash → char 'S', password so far: 'Sup3r$3cre7P4$S'
16: matched hash → char 'w', password so far: 'Sup3r$3cre7P4$Sw'
17: matched hash → char '0', password so far: 'Sup3r$3cre7P4$Sw0'
18: matched hash → char 'r', password so far: 'Sup3r$3cre7P4$Sw0r'
19: matched hash → char 'd', password so far: 'Sup3r$3cre7P4$Sw0rd'
20: matched hash → char '!', password so far: 'Sup3r$3cre7P4$Sw0rd!'
```

After we decrypt the zip with the password Sup3r\$3cre7P4\$Sw0rd!, we get an image:





And by putting it into Cyberchef and extracting LSB we get the flag.



Input

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