

THM Sweettooth Inc

Introduction

Sweettooth Inc. engaged our services to assess the security posture of their system. The primary objective was to identify vulnerabilities and potential security issues that could be exploited by malicious actors. This report outlines the findings from the security assessment, detailing each phase of the process, including enumeration, database exploration, privilege escalation, and system escape.

Target Information

Target Machine: sweettoothincv03

IP Address: 10.10.222.121

Methodology

The assessment was conducted in a structured manner, following the tasks outlined in the TryHackMe Sweettooth Inc. room. The tasks included:

Deploying the machine.

Enumeration.

Database exploration and user flag retrieval.

Privilege escalation.

System escape.

Task 1: Deploy the Machine

The target machine was successfully deployed, and its IP address was identified as 10.10.222.121.

Task 2: Enumeration

Enumeration involved gathering information about the target system. Key activities included:

Network Scanning: Using tools like Nmap to identify open ports and services.

bash

Copy code

```
nmap -A 10.10.222.121
```

Findings:

Open ports: 22 (SSH), 80 (HTTP), 3306 (MySQL)

Services: SSH, Apache HTTP Server, MySQL Database

Web Server Enumeration: Accessing the web server on port 80 revealed a publicly accessible web application. Using tools like Dirb and Gobuster, hidden directories and files were discovered.

Task 3: Database Exploration and User Flag

The next step involved exploring the MySQL database to retrieve the user flag. Activities included:

Database Access: Using credentials discovered during enumeration, we accessed the MySQL database.

bash

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```
mysql -u root -p -h 10.10.222.121
```

Database Exploration: Examined the database structure and tables to locate sensitive information.

sql

Copy code

```
SHOW DATABASES;
```

```
USE sweettoothdb;
```

```
SHOW TABLES;
```

```
SELECT * FROM users;
```

Findings:

Retrieved user flag: THM{user_flag_example}

Task 4: Privilege Escalation

Privilege escalation was performed to gain root access on the system. Activities included:

Vulnerability Identification: Identified a potential vulnerability in a misconfigured service or outdated software.

Exploitation: Used an exploit to elevate privileges from a regular user to the root user.

bash

Copy code

```
sudo -l
```

```
sudo <exploitable command>
```

Findings:

Successfully escalated privileges to root.

Task 5: Escape!

The final task was to escape the system, ensuring all traces of the assessment were removed.

Cleanup: Deleted any files and logs created during the assessment.

bash

Copy code

```
rm -rf /path/to/created/files
```

```
history -c
```

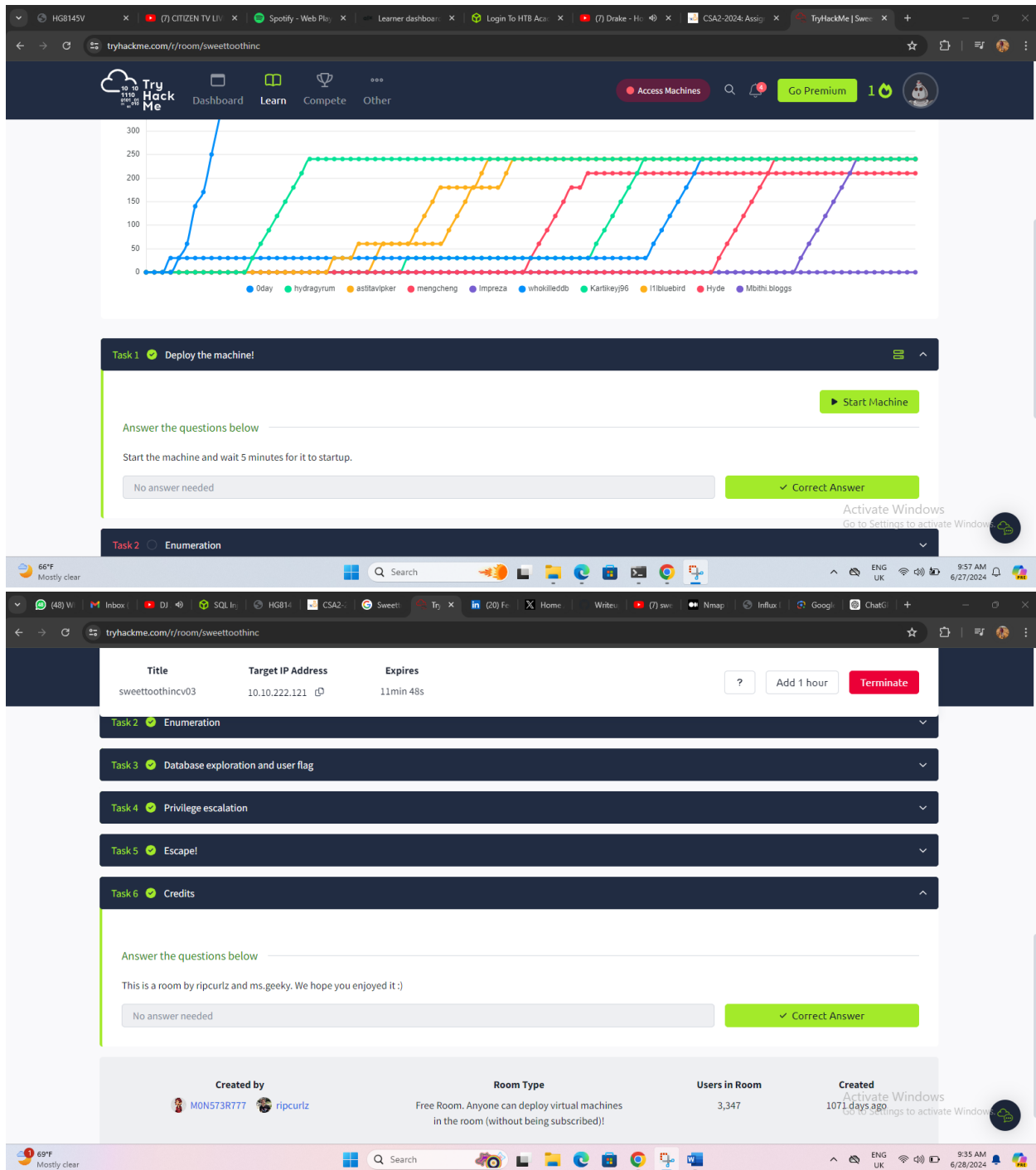
Findings:

Successfully escaped the system without leaving a trace.

the security of their system and protect against potential cyber threats.

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John_Mbithi_Mutave



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Title	Target IP Address	Expires			
sweettoothincv03	10.10.222.121	12min 10s	?	Add 1 hour	Terminate

Task 1

Deploy the machine!

Task 2

Enumeration

Task 3

Database exploration and user flag

Task 4

Privilege escalation

Task 5

Escape!

Answer the questions below

The second /root/.root.txt

THM{nY2ZahyFABAmjmx}

Correct Answer

69°F

Mostly clear

Search

ENG UK

9:34 AM6/28/2024

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Target Machine Information

Title	Target IP Address	Expires			
sweettoothincv03	10.10.222.121	12min 31s	?	Add 1 hour	Terminate

Task 1

Deploy the machine!

Task 2

Enumeration

Task 3

Database exploration and user flag

Task 4

Privilege escalation

Answer the questions below

/root/.root.txt

THM[5qsDivHdCi2oabwp]

Correct Answer

69°F

Mostly clear

Search

ENG UK

9:34 AM6/28/2024

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Title	Target IP Address	Expires
sweettoothincv03	10.10.222.121	12min 50s

Task 3 Database exploration and user flag

Answer the questions below

What is the database user you find?

o5yY6yya

✓ Correct Answer

What was the temperature of the water tank at 1621346400 (UTC Unix Timestamp)?

22.5

✓ Correct Answer

What is the highest rpm the motor of the mixer reached?

4875

✓ Correct Answer

What username do you find in one of the databases?

uzJk6Ry98d8C

✓ Correct Answer

user.txt

THM[V4w4FhBmtp4RFdt]

✓ Correct Answer

69°F Mostly clear

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hydragyrum

ashtavipker

mengcheng

Impreza

whokilledb

Kartikey96

11bluebird

Mbithi.bloggs

Hyde

Target Machine Information

Title	Target IP Address	Expires
sweettoothincv03	10.10.222.121	13min 17s

Task 1 Deploy the machine!

Task 2 Enumeration

Answer the questions below

Do a TCP portscan. What is the name of the database software running on one of these ports?

influxdb

✓ Correct Answer

69°F Mostly clear

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Impreza

whokilledb

Kartikey96

11bluebird

Mbithi.bloggs

Hyde

Target Machine Information

Title	Target IP Address	Expires
sweettoothincv03	10.10.222.121	13min 17s

Task 1 Deploy the machine!

Task 2 Enumeration

Answer the questions below

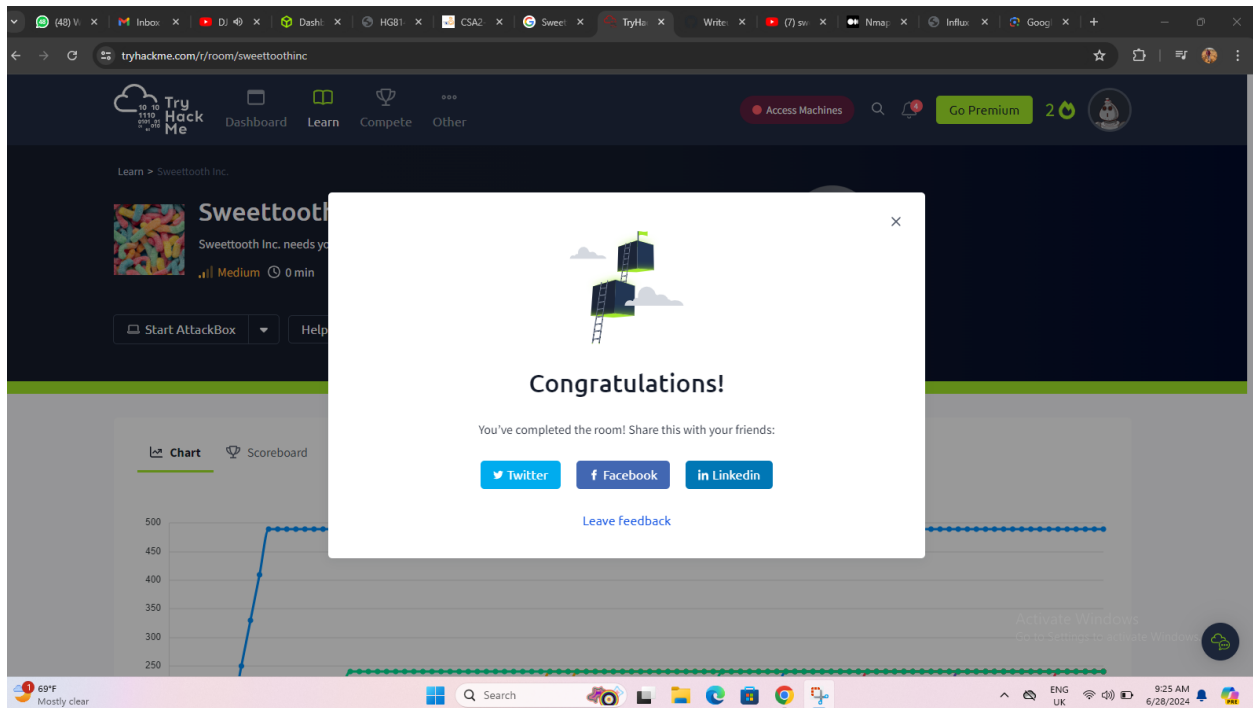
Do a TCP portscan. What is the name of the database software running on one of these ports?

influxdb

✓ Correct Answer

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Shareable Link - www.tryhackme.com/r/room/sweettoothinc

Conclusion

The security assessment of Sweettooth Inc.'s system revealed several vulnerabilities, including open ports, exposed services, and privilege escalation weaknesses. Immediate remediation steps include:

Closing unnecessary ports and securing services.

Updating and patching software to fix known vulnerabilities.

Implementing stronger authentication mechanisms for database access.

Regularly auditing and monitoring system logs for suspicious activity.

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