Introduction:

This report outlines a cybersecurity penetration test on Sweettooth Inc., focusing on identifying and exploiting system vulnerabilities across three tasks: initial reconnaissance, Influx database exploitation, and Docker container compromise.

https://tryhackme.com/p/Damiano254

Performed an nmap scan to find open ports.

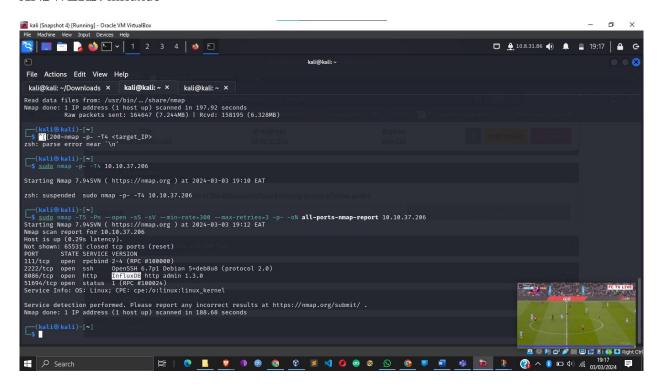
Found open ports: 22 (SSH), 8086 (HTTP), and an RPC bind.

Found the Influx database version 1.3.0.

Found an exploit online for the Influx database version.

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

ANSWERS: influxdb



Task 2: Exploiting the Influx Database

Accessed /debug/requests to leak usernames.

Created a non-expiring JWT token for authentication.

Authenticated using the JWT token.

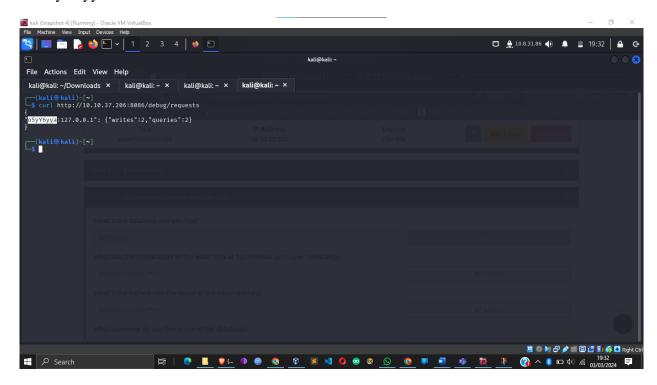
Queried the Influx database to find the names of databases and their columns.

Used the max function to find the highest RPM the motor of the mixer reached.

Found a username in one of the databases.

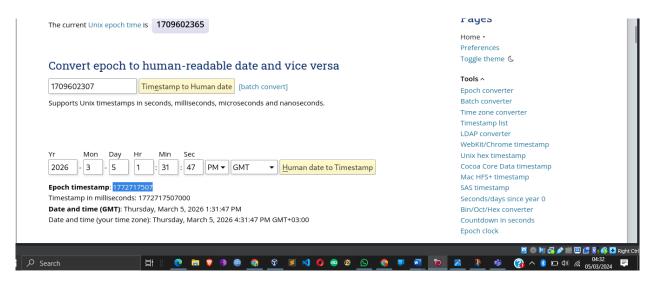
Q: What is the database user you find?

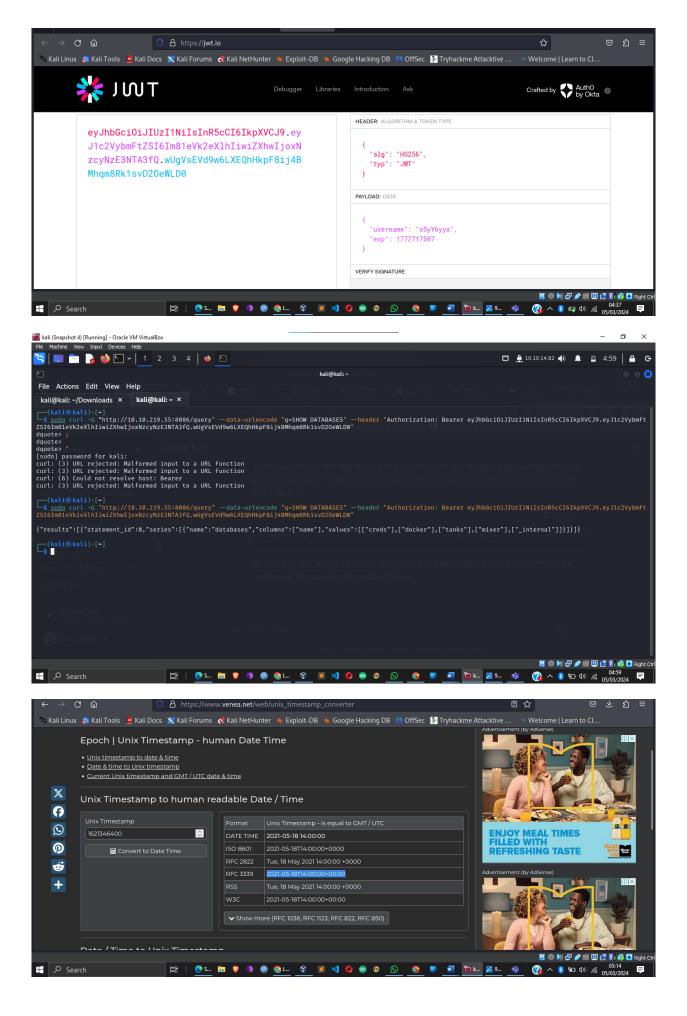
А: о5уҮбууа

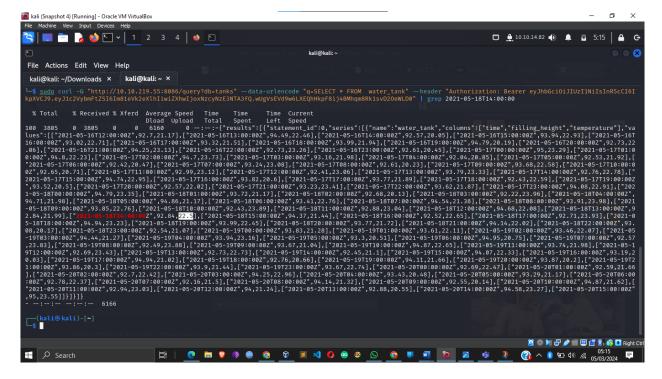


Q: What was the temperature of the water tank at 1621346400 (UTC Unix Timestamp)?

A: 22.5

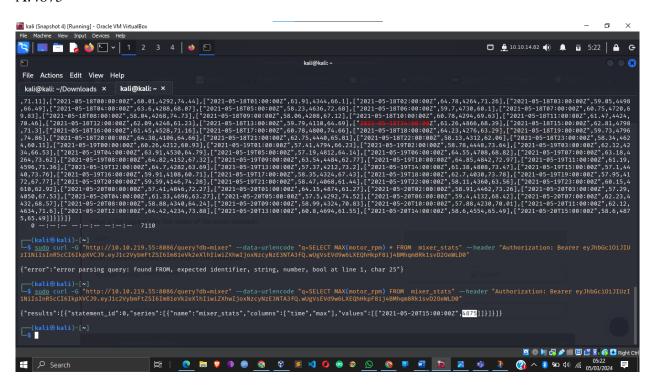






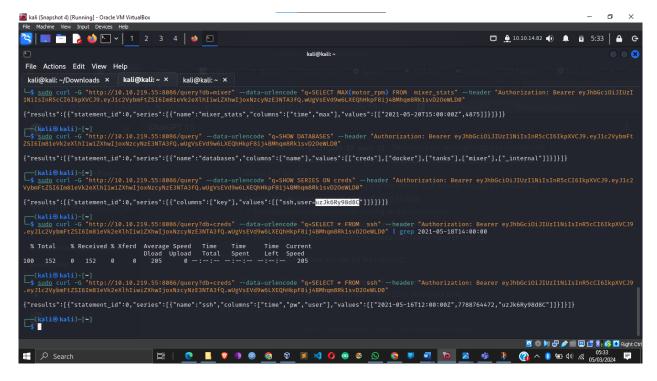
Q: What is the highest rpm the motor of the mixer reached?

A:4875



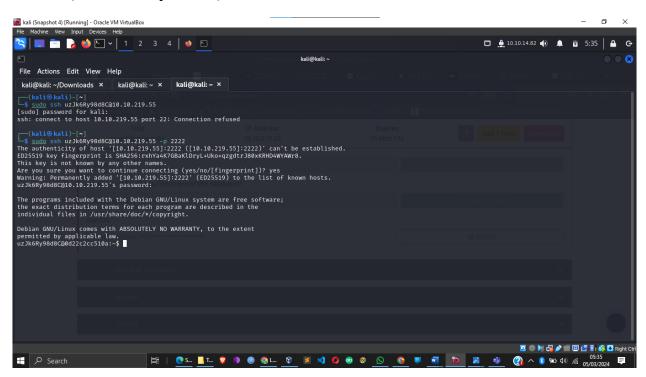
Q: What username do you find in one of the databases?

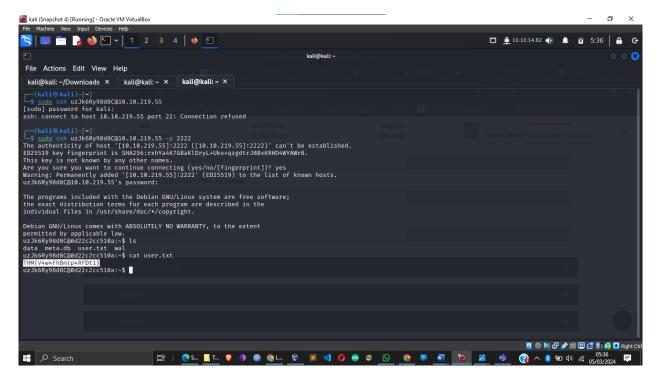
A: uzJk6Ry98d8C



Q: user.txt

A: THM{V4w4FhBmtp4RFDti}





Task 3: Exploiting the Docker Container

Found the internal service of the Docker container.

Accessed the Docker container through SSH tunneling.

Logged into the Docker container as the user found earlier.

Exported the Docker container for further exploitation.

Uploaded a reverse shell and got a connection back to the attacker's machine as the root user.

Found two flags: one for privilege escalation and one for escaping the Docker container.

Successfully completed the task in the TryHackMe room Sweettooth Inc.

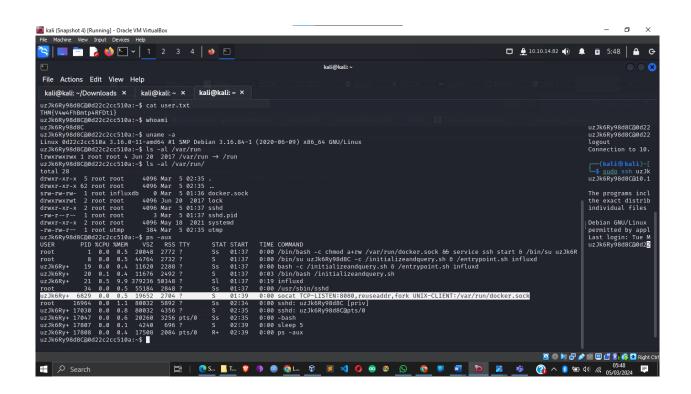
Demonstrated the process of initial reconnaissance, exploiting the Influx database, and exploiting the Docker container.

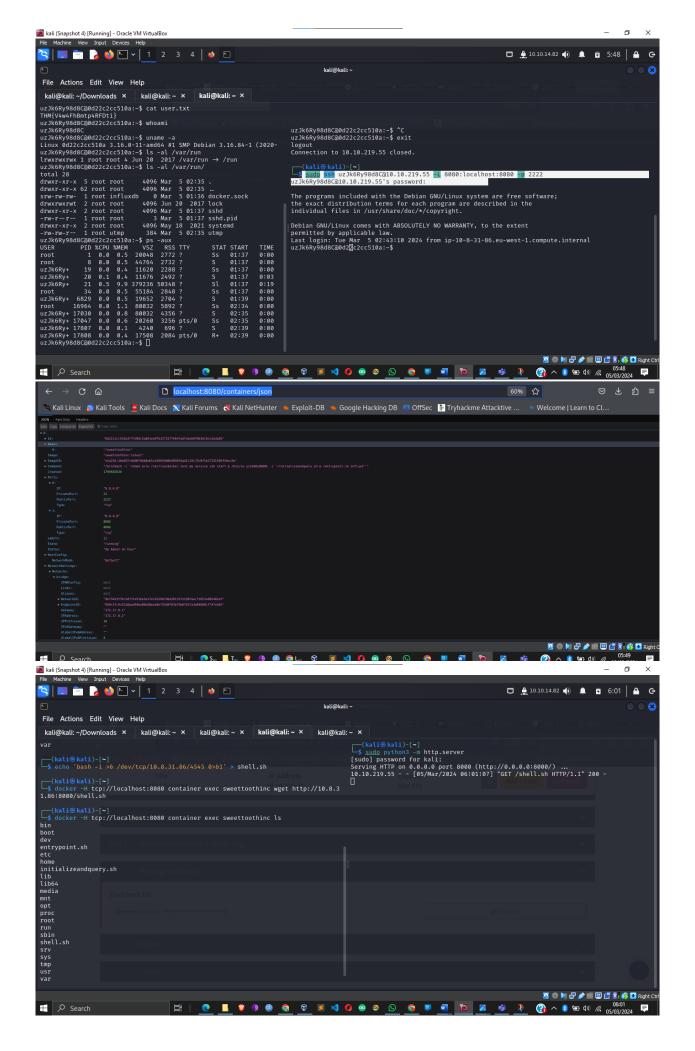
Accomplished the objective by gaining a foothold on the machine, privilege escalation, and escaping the Docker container.

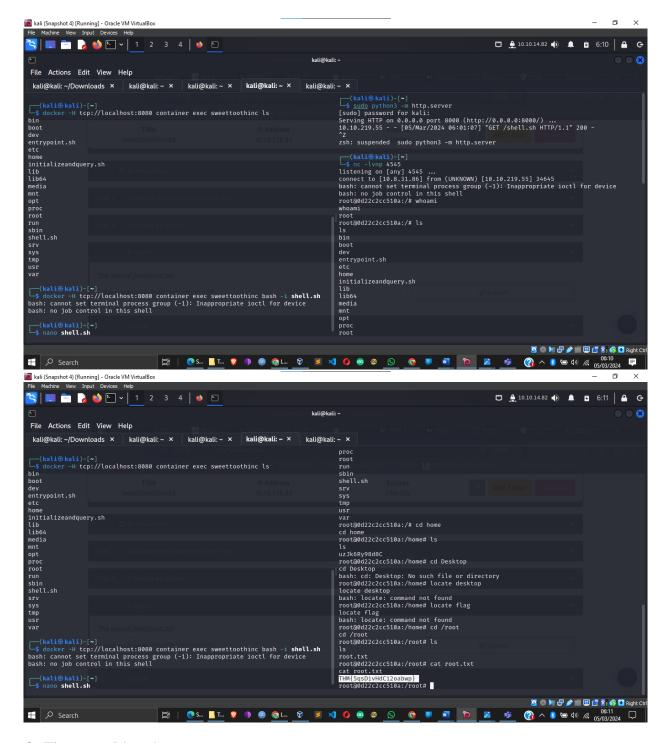
Found two flags: one for privilege escalation and one for escaping the Docker container.

Q: /root/root.txt

A: THM{5qsDivHdCi2oabwp}

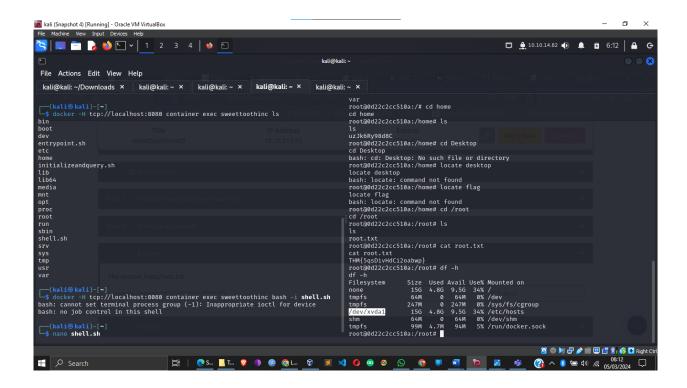


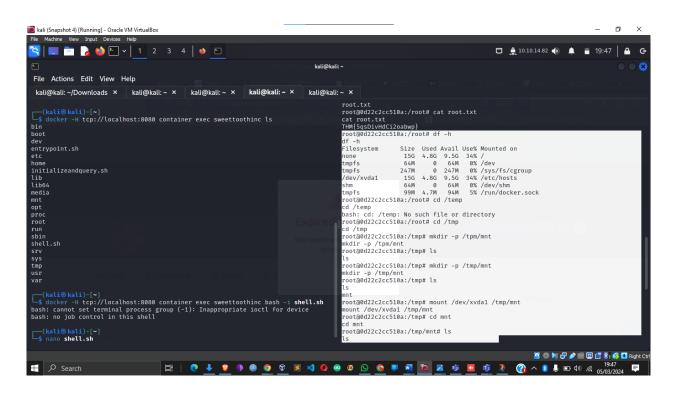


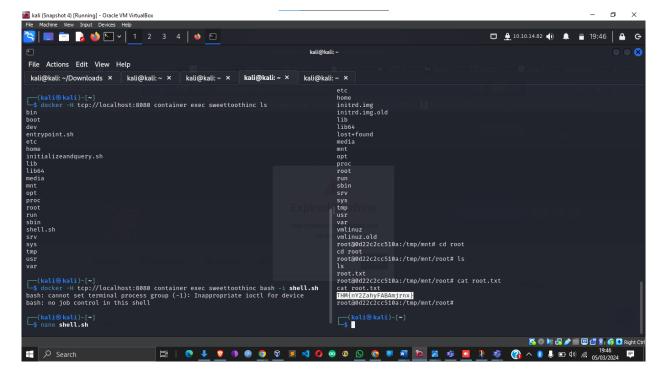


Q: The second /root/root.txt

A: THM {nY2ZahyFABAmjrnx}







Conclusion:

The test successfully revealed and exploited critical vulnerabilities, leading to unauthorized access and information extraction. The findings emphasize the necessity for enhanced security protocols to protect against similar cyber threats.

