Talal Jawaid 10/13/2019 CSC 154

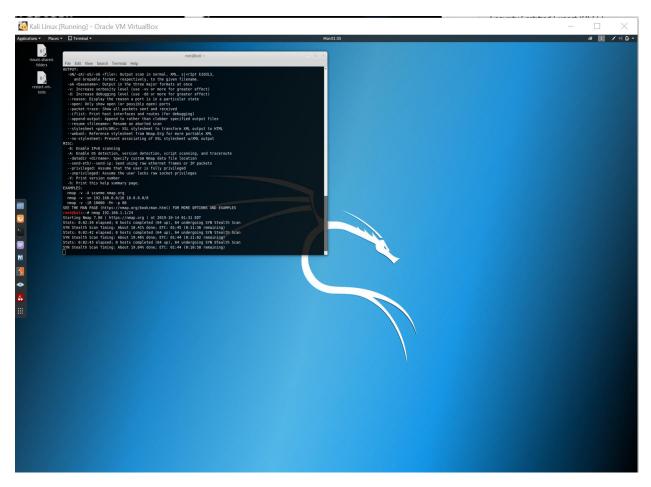
Lab 2

Metasploit Tikiwiki exploit

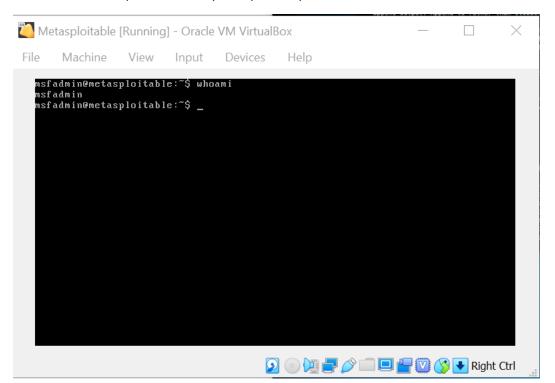
## The entire method consists of this

## Method

- Use Nmap to scan the network (gathering information)
- Use Nmap to do a more detailed scan of the target (gathering information)
- Use Metasploit to discover the database details (gaining access)
- [\*] Can also use an exploit (gaining access)
- Search the database from the account information (gathering information and gaining access)
- [\*] Use a web based backdoor to create shell access (remote access)
- Automate shell access via Metasploit (remote access)
- I cheated a little bit here as I had used nessus in a previous scan to discover "Debian OpenSSH/OpenSSL Package Random Number Generator Weakness"
- Via the payload it is possible to capture the SSH Key and compare it against the weak keys Just like pWnOS (escalating privileges)
- Connect via SSH as root (complete access)
- Prove complete access by cracking the shadow file with John The Ripper (then prove it by connecting via SSH using one of the newly acquired accounts)
- 1. First step is correctly setting up Kali Backtrack Linux on system

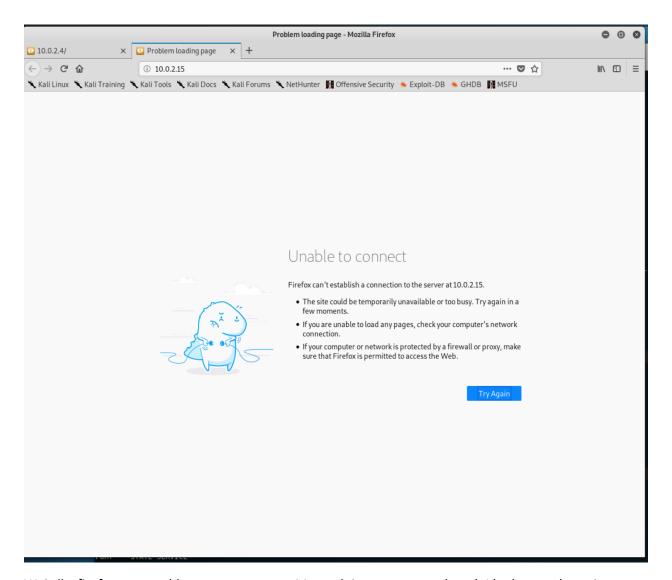


2. Second step is to correctly set up Metasploit on Virtualbox

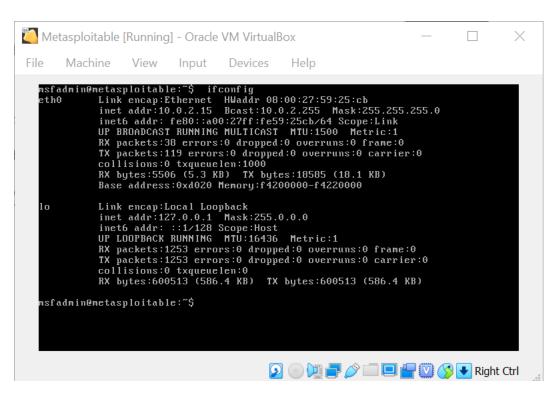


3. Third step is to use Nmap to scan network through terminal on Kali

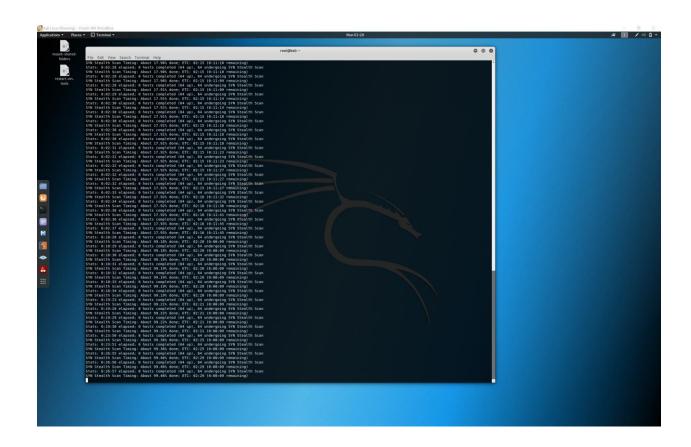
4. Fourth step is to use firefox to confirm existence of the Metasploit server.



Weirdly, firefox was unable to connect to my Metasploit server, even though I had properly set it up through virtualbox network connections. I have attached screenshot of Metasploit server showing same ip address.



- 5. Fifth step is to then compile and run the DirBuster file against the server.
- 6. You then use firefox to access the tikiwiki director
- 7. You then open up the Metasploit console and search for tikiwiki
- 8. You set the admin permissions for the tikiwiki file
- 9. You have to then go through and change the default SQL admin password.
- 10. After that, we use the web based backdoor to gain shell remote access.
- 11. We automate that shell access through use of our remote Metasploit access.
- 12. We then capture that SSH key being used to connect and compare it to known weak keys. Once we have the SSH key, we can connect as root and have full access to the system.



13.