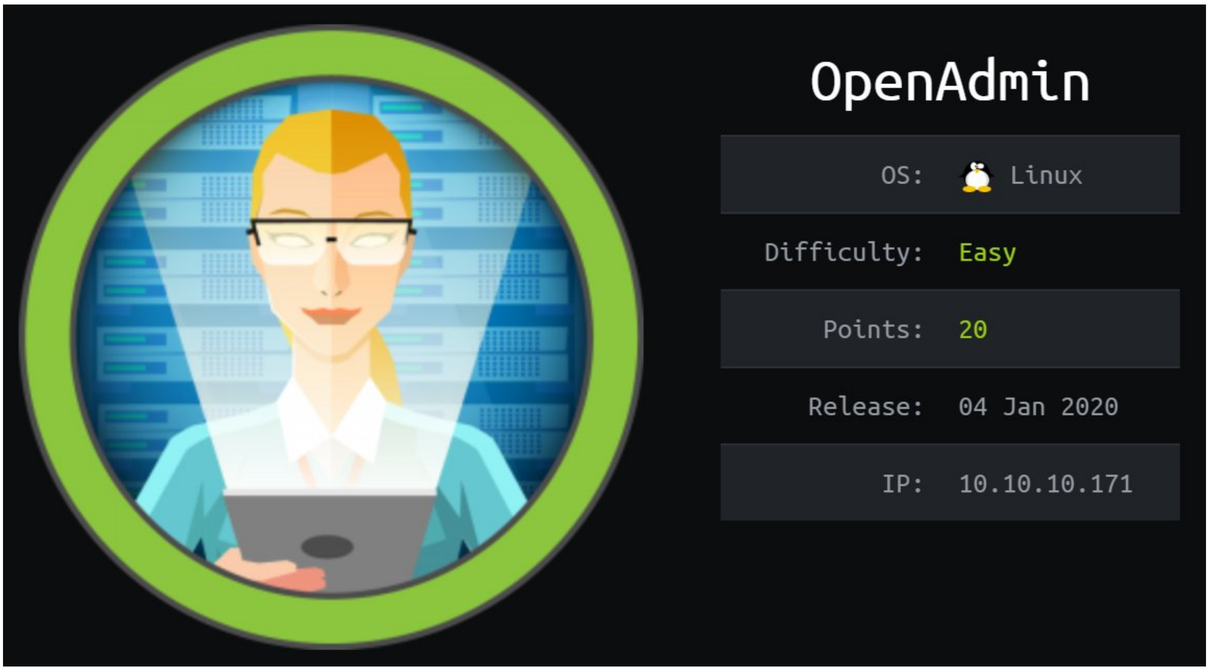
OpenAdmin Cookbook



OpenAdmin

OS: Linux

Difficulty: Easy

Points: 20

Release: 04 Jan 2020

IP: 10.10.10.171

Learning Outcomes

At the end of this challenge, you learned how to setup hack-the-box VPN connection, perform port and vulnerabilities scanning, exploit and escalate privileges in a Linux Server. You are required to get user.txt and root.txt in order to gain points in hack-the-box, https://www.hackthebox.eu/ Once user.txt flag was submitted, you will be award 10 points and 20 points for root.txt flag.

Materials needed

- Preparation: Openvpn , HTB Connection pack
- Enumeration: Nmap , Nikto , Dirbuster/Gobuster
- Gain Access: Dos2Unix
- Password cracker : John the Riper, Wordlists , SSH Keygen
- Escalate Privileges : GTFOBins
- Web browser: Linux command manual, ExploitDB

Preparation

- Setup connection to the server (Hint: vpn)
- Check your connection if Tun0 is displayed
- Ping the machine
- Install the tools in the materials needed list (Hint: don’t forget to ‘sudo’)
- Checklist: successful ping? Installed the tools?

Enumeration

- scan list of open ports, running OS & version via nmap
- use Nikto to search for vulnerabilities (hint: focus on the open port no. relate to web app)
- use Dirbuster/ Gobuster to search for present directory (Hint: type the full url that you want to scan & use medium wordlist)
- Based on the directory found in Dirbuster/Gobuster, access to the server Access Page
- Search for vulnerabilities within the version of the running database in ExploitDB
- Understand the exploit and download it

Gain Access

- Convert the exploit file using Dos2Unix
- Run the exploit and try and type id (hint: the result)
- can you get the password?? (Hint: do some digging)
- maybe you can/need to make the machine more stable to capture the data you want by downloading another exploit
- but how to download a php-reverse-shell to the OpenAdmin machine? (Hint: host a simple web server)
- Once the machine is more stable, continue digging for user id &password (Hint: /opt)
- Still yet to find user id? How about dig at another place? (Hint” Var logs)
- Checklist time: do you have the user id ? and password?? (Hint: pwd: related to Naruto)
- time to connect through SSH and access the user account that you found

Local Enumeration

- Check out what and who is this user (services running, kernel & version, open ports, what can he do / file he can access?)
- Why not listen to some gossips about tulip in the meantime? (Hint: networking)
- try to read some data of the files maybe you can find some clue (Hint: ask the cat for help)
- Had the cat had capture some useful information like key or other user? (Hint: try port forwarding + SSH)
- Checklist time: found the keys of other user and username?

Password Cracking

- Time to crack some key shape like “eggs” using ssh keygen
- decode the generated ssh keygen using John the riper (Hint: use the ssh file that require the snake to power)
- Can you get the answer that you want?

- If no, why not make your own wordlist based on the hint that keep on pop out while digging for file directory? (Hint: you need the cat help to grab the word and paste it on your wordlist file)
- Try again with your self-made wordlist and you will get the newly acquire user password hash
- Checklist: had you crack the key and store as a hash?

Escalate Privileges

- time to access the newly acquired user account
- go to the directory that you store the hash
- access it through ssh using the hash file (Hint: solve x : ssh (x) <filename.hash> username@ip)
- The password is the ripped key password
- Congratulation if you had accessed to this newly acquired account, you can find your user.txt flag here.
- But the fun part is yet to come, we need to root the plant for its delicacy and only superuser a.k.a admin get to enjoy.
- Maybe you can try some superman command
- You had been doing push up for some time, your arm might be strong like superman. Maybe you can carry some heavy stuff like superman do
- Did you found something? if yes? how about try to execute it like superman do?
- Oh, you had travel into a new spectrum, known as an interactive system shell.
- Try and see if you can find kryptonite maybe you will end up as G-girl from My Super Ex-girlfriend instead and don't forget about root.txt?

Extra Tips

- Don't forget to submit the captured flag.
- Always perform write-up before stopping or ending your hacking session.
- Check your hacking machine date and time when there's an error during installation or having trouble to access a websites
- The aim of this challenge is to gain access and not disrupt the HTB, OpenAdmin machine thru DOS attack.
- Is cool that you found the files that you need but don't be mischievous and delete them. If you couldn't find valuable information during enumeration, always reset the box. It's better than falling into the rabbit hole.
-