TryHackMe - HA Joker CTF Writeup

Overview

This is a medium-level Capture The Flag (CTF) challenge focused on web exploitation and privilege escalation. The goal is to gain root access by chaining multiple vulnerabilities.

1. Service Enumeration

Use nmap to scan open ports:

You'll see these open:

- 22 SSH
- 80 HTTP
- 8080 HTTP with basic authentication

2. Port 80: HTTP Web Page

Visit the site and run a directory brute-force using:

gobuster dir -u http://<IP> -w /usr/share/wordlists/dirb/common.txt

You may discover:

- secret.txt contains a chat between Joker and Batman, hinting a username
- phpinfo.php exposes PHP config info

1 3. Discovering Username

From the secret.txt, we learn the user is joker.

4. Port 8080: Brute-Forcing Credentials

Untitled 1

Use Hydra to brute-force login:

hydra -I joker -P /usr/share/wordlists/rockyou.txt http-get://<IP>:8080

Password found: hannah

★ 5. Admin Portal (Joomla)

After logging into port 8080 with joker:hannah, you find it's a Joomla CMS site.

Run Gobuster or Nikto again to find:

- /administrator/ Joomla admin login
- backup.zip a downloadable backup file

a 6. Cracking backup.zip

Download the zip file and crack its password:

zip2john backup.zip > hash.txt john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt

After cracking, extract it. It contains:

- Joomla config
- Database file with credentials

7. Get Reverse Shell

Use Joomla admin access to upload a PHP reverse shell:

Steps:

- 1. Go to Templates in admin panel
- 2. Edit index.php of any template
- 3. Paste your reverse shell code
- 4. Set up listener:

Untitled 2

nc -lvnp 4444

1. Visit the template page to trigger shell

1 8. Privilege Escalation (LXD Group)

Check group membership:

id

You'll see **Ixd**. This means the user can run privileged containers.

Steps:

- 1. Create an Alpine Linux container tarball
- 2. Import it using Ixc image import
- 3. Launch it and mount root filesystem
- 4. Gain access to /root

M Final: Read the Flag

Now you're root!

Check /root/root.txt and /home/<user>/user.txt for the flags.

Untitled 3