

Gaining Privileged Access on Windows Networks

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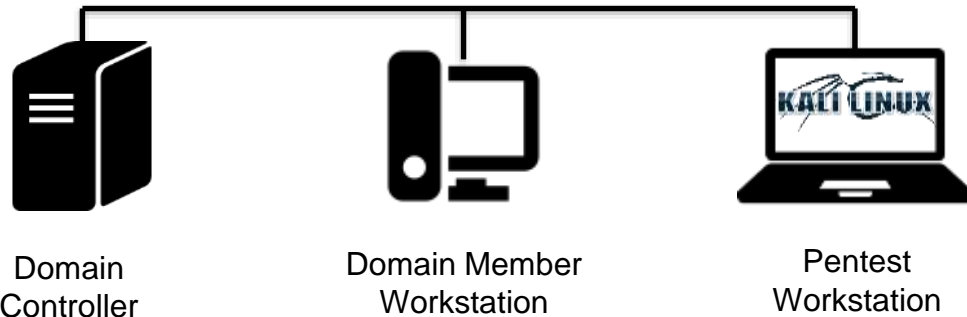


About Sikich Security & Compliance

- › **A full-service information security and compliance consulting practice within Sikich**
 - › Audits and assessments
 - › Penetration testing
 - › Forensics
- › **Handle anything having to do with security or protecting data, including:**
 - › Credit card data (PCI DSS)
 - › Patient data (HIPAA/HITECH)
 - › Financial Information (FFIEC/GLBA)
 - › Service provider reviews (SOC 1/2/3)
 - › Federal information security standards (NIST/FISMA)

The Setup

- › **Assume we've gained a foothold into an internal network**
 - › Perhaps through a VPN, malware command-and-control (C&C) channels, a wireless connection or physical intrusion
- › **Assume patches are up to date and anti-virus is running**
- › **We'll demonstrate six common ways we gain or elevate domain access**
- › **We'll display a recap slide at the end of the presentation and give you time to snap a picture**



**Time to put on your hoodie and start
hacking...**

Questions?

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Recap

- › All demos used the **Kali Linux** distribution
- › Used **Responder** to spoof Link-Local Multicast Name Resolution (LLMNR) responses, and then **Hashcat** to crack those hashes
- › Used **nmap** to find systems running Server Message Block (SMB), and then **enum4linux** to find systems with null SMB sessions and extract accessible data
- › Used **Medusa** to perform password spraying
- › Used **Metasploit's**:
 - › **smb_share_enum** module to find accessible files on file shares
 - › **Kiwi** module to extract cached passwords from Local Security Authority Subsystem Service (LSASS)
 - › **hashdump** module to extract local password hashes



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