Internal Penetration Test (Active Directory Environments) Unauthenticated Information Gathering Automated Tools

	Generate nmap output files (with targets in targets.txt): nmap -oA nmap-out -sV -pvv -iL targets.txt
	For tests with lots of web hosts, grab screenshots with a tool like aquatone
	Import nmap findings into Metasploit # create a new workspace workspace -a # import the file db_import nmap-out.xml # view 5060 and 2000 to see if they are legit (they probably are not) services -p 5060,2000 # delete them services -p 5060,2000 -d
#	Use Metasploit modules for web dir/file enumeration msfconsole spool dir-scanner.txt use auxiliary/scanner/http/dir_scanner set DICTIONARY /opt/SecLists/Discovery/Web-Content/common.txt services -u -p 80rhosts set rport 80 set ssl false run services -u -p 443rhosts set rport 443 set ssl true run repeat for other web ports (8443, 8080, etc)
	Check for anonymous SMB shares with auxiliary/scanner/smb/smb_enumshares. Check for open NFS shares with auxiliary/scanner/nfs/nfsmount. Check for anonymous FTP shares with auxiliary/scanner/ftp/anonymous. Create a list of machines that are not configured to do SMB signing (for
•	relaying later on). Crackmapexec 'gen-relay-list'

Manual Review		
	Identify all URLs that allow logins.	
	Manually review screenshots from all HTTP services.	
Obtaining Credentials		
	Responder attack.	
•	☐ First, run in analyze mode. Determine blue-teamy stuff and then run configure Responder.conf to not respond to those IPs.	
	Execute an ipv6 mitm attack.	
	Getting action from standard responder or mitm6? Use Impacket's ntlmrelay.py to dump SAM and/or get interactive SMB shells.	
	Start cracking any received challenge/response data.	
	Wireless WPA-Enterprise attacks to gather usernames, hashes, and passwords.	
•	airgeddon is a nice automation tool for hostapd-wpe.	
	Find any printer admin pages? Try default creds and look for LDAP integration.	
	Drop a few USB sticks in the conference rooms (don't push the scope!).	
	Internal password spray:	
•	☐ Metasploit's auxiliary/scanner/smb/smb_login.	
•	☐ CrackMapExec.	
Authenticated Information Gathering		
	Manually review scripts in \domain_name\netlogon	
•	☐ Don't just look for passwords - look for references to dev	
	environments, deployment servers, etc.	
	Run the Sharphound injestor and map paths in Bloodhound.	
	Enumerate shares with crackmapexec 'shares'	
	Rummage through shares.	
	Rummage through Sharepoint, e-mail, etc.	
	Look for anything related to new accounts and passwords resets. IT often uses standard passwords for these. If you find one, spray it around.	
	Enumerate and map network connectivity with a tool like leprechaun.	

Initial Foothold		
Local Privilege Escalation		
 Try WindowsEnum or similar script to cover the basics. Use a test machine to observe procmon.exe for vendor 0-days (writable DLL and service paths, etc) 		
Domain Privilege Escalation		
 □ Get SPNs (Kerberoast - get that GPU humming!) □ Run Grouper □ Running SQL servers? Try for authenticated SQL/SMB relay with auxiliary/admin/mssql/mssql_ntlm_stealer □ Leverage existing credentials to get more credentials or passable hashes. □ crackmapexec 'sam' □ crackmapexec 'lsa' □ crackmapexec '-M mimikatz' □ Windows Task Manager or procdump.exe to dump lsass and use mimikatz or pypykatz □ Find logged in users and sessions on boxes you have admin rights to. □ crackmapexec 'loggedon-users' □ crackmapexec 'sessions' □ Review Bloodhound path's to DA with: □ All currently compromised accounts □ All logged-on users on boxes you have admin rights to 		
Objective Hunting		
Use Impacket's secretsdump.py to access credentials for specific accounts you need.		