# **SMB Cheat Sheet**

### General



- SMB= Server Message Block
- SMB is a Windows implementation of a file-sharing
- SMB uses ports 139 and 445

# **Nmap Scripts**



\* Always check both TCP and UDP ports using Nmap

### smb-protocols

- Shows SMB Protocol dialects
- Issue: SMB v1

### smb-security-mode

- To determine the security mode of SMB service Shows Active sessions
  - NONE: No security mode.
  - SHARE: Share-level security mode.
  - USER: User-level security mode.
  - DOMAIN: Domain-level security mode.
  - ADS: Active Directory security mode.

Issue: Messege\_signing: disabled

### smb-enum-shares

- enumerate the available shares on a target system
- Shows permissions to the shared accounts

smb-enum-shares, smb-ls --script-args smbusername=administrator,smbpassword =password IP\_address

- "smb-ls" tells us what's inside each of the shares like finding directory

### SMB-os-discovery

-To determine the operating system

### smb-enum-sessions

smb-enum-sessions --script-args smbusername=administrator,smbpassword =password IP\_address

smb-enum-users --script-args smbusername=administrator,smbpassword =password

- To enumerate user accounts on a target system

smb-enum-stats --script-args
smbusername=administrator,smbpassword
= password

- Server statistics:
  - How many files are sent
  - Failed Logins
  - Permissions etc.

smb-enum-groups --script-args smbusername=administrator,smbpassword =password

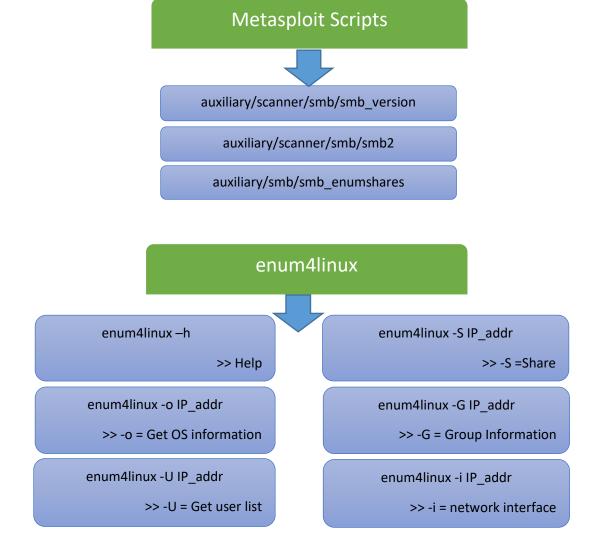
- Provides list of users in Groups
- May retrieve group names, memberships etc.

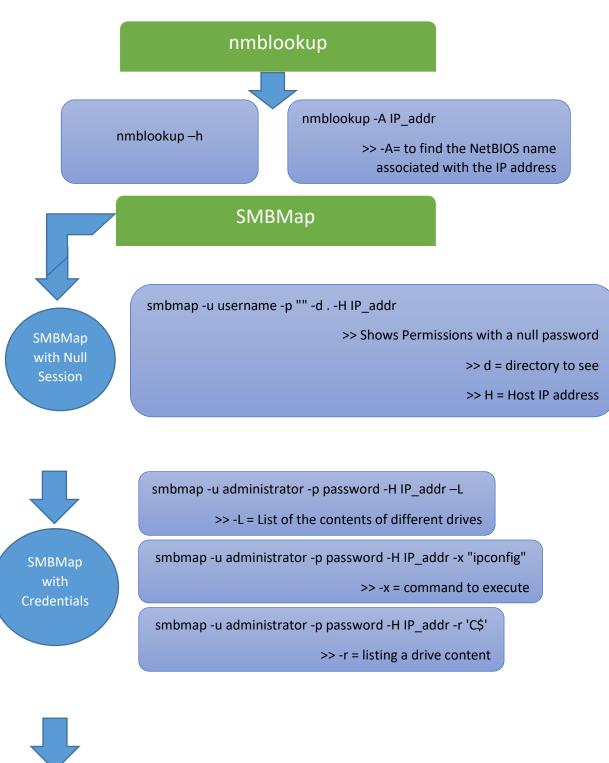
smb-enum-domains --script-args smbusername=administrator,smbpassword =password

- To enumerate domain information from target systems
- May retrieve details such as domain names, domain controllers, trusts and other relevant information about the Windows domain environment.

smb-enum-services --script-args smbusername=administrator,smbpassword =password

- enumerate running services







### touch backdoor

smbmap -u administrator -p password -H IP\_addr --upload "/root/backdoor" "C\$\backdoor"



smbmap -u administrator -p password -H IP\_addr --download "C\$\flag.txt"

- Files will be downloaded to the attacker device's "/root" folder.

# smbclient Connection with Null Session smbclient -L IP\_addr -N >> -N= No password = Null session >> -L = List of Hosts

# rpcclient Connection with Null Session rpcclient -h rpcclient -U "" -N IP\_addr >> -N= No password = Null session >> Help ? <<< help Srvinfo <<< Getting info from remote server connecting enumdomusers <<< getting user list enumdomgroups <<< getting group list rpcclient <<< Get full SID of admin lookupnames username exit

# **SMB Dictionary Attack**

