SMB Enumeration

@mmar

What is SMB

SMB (Server Message Block) is a network protocol used for file sharing, printer sharing, and other communication between computers in a network. It is commonly associated with Microsoft Windows environments. SMB operates over TCP/IP and uses a range of ports for different purposes

SMB Ports

- ✓ **TCP port 445:** This is the primary port used by SMB for file sharing and communication. It handles the majority of SMB traffic, including file access, printer sharing, and remote administration
- ✓ **UDP ports 137 and 138:** These ports are used by SMB for NetBIOS name resolution and datagram services, similar to NetBIOS
- ✓ **TCP port 139:** This port is used by older versions of SMB for session establishment and file sharing. It is commonly used in conjunction with NetBIOS over TCP/IP (NBT)

Nmap

The Swiss Army Knife

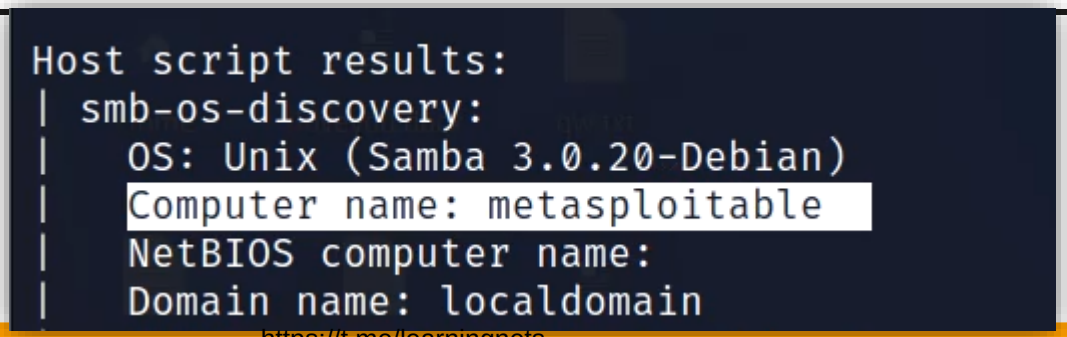
Nmap

- Nmap can be used to scan and enumerate the smb service and then we can use various tools to enumerate smb

>sudo nmap -A –p 445 192.168.18.110

>sudo nmap --script smb-os-discovery.nse 192.168.18.110

>nmap -p 445 --script=smb-enum-shares.nse,smb-enum-users.nse 192.168.18.110



Nmap

- There are a number of scripts to enumerate smb. You can check more scripts by the following command

```
cd /usr/share/nmap/scripts; ls |  grep smb
```

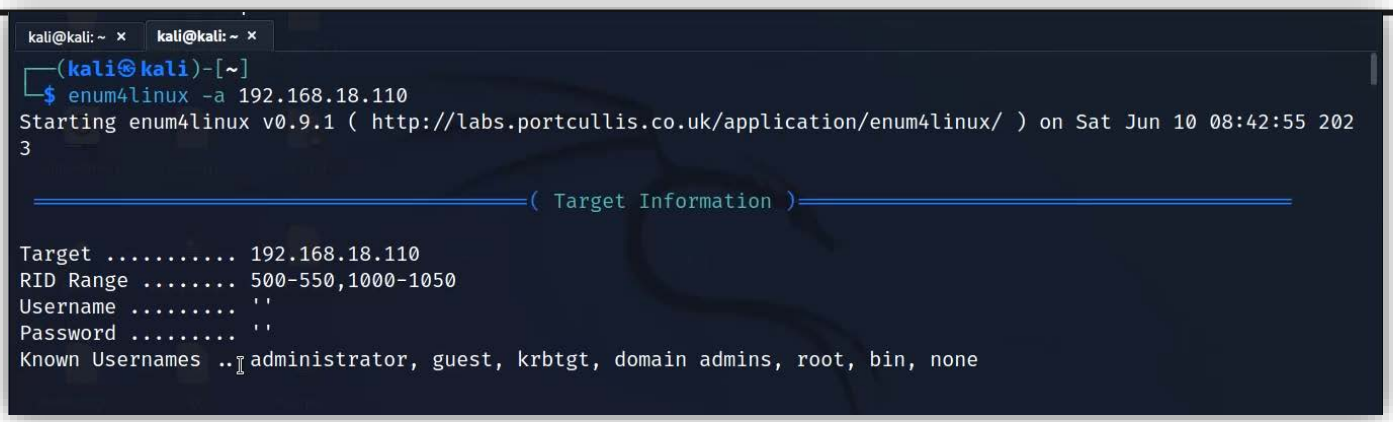
Enum4linux

Most important Enumeration Tool

Enum4linux

- Enum4linux is a tool used for network enumeration and information gathering. Enum4linux leverages various SMB and NetBIOS enumeration techniques to gather information about a target system

>enum4linux -a 192.168.18.110



Demo

THANKS