Assignment-2

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In this lets explore Metasploit tool in kali Linux OS and scan the own computer and find the vulnerabili es and exploits in it.

 First we have to get the systems ipv4 address of the system we are checking and then scan the system using nmap.

```
(kali@ kali)-[~]
$ nmap 192.168.10.35 -Pn
Starting Nmap 7.94 ( https://nmap.org ) at 2023-09-05 10:43 IST
Nmap scan report for VISHNU-PC (192.168.10.35)
Host is up (0.014s latency).
Not shown: 995 filtered tcp ports (no-response)
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open metbios-ssn
445/tcp open microsoft-ds
3306/tcp open mysql
5357/tcp open wsdapi
Nmap done: 1 IP address (1 host up) scanned in 5.36 seconds
```

```
$ nmap 192.168.10.35 -Pn -sV
Starting Nmap 7.94 ( https://nmap.org ) at 2023-09-05 10:45 IST Nmap scan report for VISHNU-PC (192.168.10.35)
Host is up (0.0087s latency).
Not shown: 995 filtered tcp ports (no-response)
          STATE SERVICE
PORT
                                       VERSION
135/tcp open msrpc
                                       Microsoft Windows RPC
139/tcp open netbios-ssn
                                       Microsoft Windows netbios-ssn
445/tcp open
3306/tcp open
                    mysql?
5357/tcp open http
                                      Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit
.cgi?new-service :
SF-Port3306-TCP:V=7.94%I=7%D=9/5%Time=64F6B975%P=x86_64-pc-linux-gnu%r(NUL
SF:L,45,"\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\
SF:20MySQL\x20server")%r(HTTPOptions,45,"\0\0\xffj\x04Host\x20'VISHNU-PC
SF: '\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x20MySQL\x20se
SF:rver")%r(RTSPRequest,45,"\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20no
SF:t\x20allowed\x20to\x20connect\x20to\x20this\x20MySQL\x20server")%r(RPCC
SF:heck,45,"\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20
SF:to\x20connect\x20to\x20this\x20MySQL\x20server")%r(DNSVersionBindReqTCP
SF:,45,"\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x50to\x20to\x20to\x20to\x20to\x20to\x20to\x20to\x20to\x20to\x20to\x20server")%r(DNSStatusRequestTCP,45,"
SF:\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20con
SF:nect\x20to\x20this\x20MySQL\x20server")%r(Help,45,"\0\0\xffj\x04Host\
SF:x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x
SF:20MySQL\x20server")%r(SSLSessionReq,45,"\0\0\0\xffj\x04Host\x20'VISHNU-
SF:PC'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x20MySQL\x20
SF:server")%r(TerminalServerCookie,45, "\0\0\0\xffj\x04Host\x20'VISHNU-PC'\
SF:x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x20MySQL\x20serv
SF:er")%r(TLSSessionReq,45,"\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20no
SF:t\x20allowed\x20to\x20tonnect\x20to\x20this\x20MySQL\x20server")%r(Kerb
SF:eros,45,"\0\0\0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20
SF:to\x20connect\x20to\x20this\x20MySQL\x20server")%r(SMBProgNeg,45,"\0\0\
SF:0\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20connect\
SF:x20to\x20this\x20MySQL\x20server")%r(X11Probe,45,"\0\0\0\xffj\x04Host\x
SF:20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x2
SF:0MySQL\x20server")%r(FourOhFourRequest,45,"\0\0\xffj\x04Host\x20'VISH
SF:NU-PC'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x20MySQL\
SF:x20server")
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://n
Nmap done: 1 IP address (1 host up) scanned in 17.60 seconds
```

- We can see port no 139 and 445 resembles SMB. So we have to explore for exploits in smb.
- Now lets open Metasploit in our kali Linux which is exploita on framework that gives access to en re system.

```
| Sudo msfconsole | Sudo msfco
```

We can enter "search smb" or "grep scanner search smb".

```
seff > grep scanner search smb

5 auxiliary/scanner/smb/impacket/dcomexec

6 auxiliary/scanner/smb/impacket/scoretesdump

8 auxiliary/scanner/smb/impacket/secretesdump

8 auxiliary/scanner/smb/impacket/secretesdump

8 auxiliary/scanner/smb/impacket/secretesdump

8 auxiliary/scanner/smb/impacket/secretesdump

8 auxiliary/scanner/smb/impacket/secretesdump

8 auxiliary/scanner/smb/impacket/secretesdump

8 auxiliary/scanner/smb/smb_mb_enum_spn

8 auxiliary/scanner/sap/sap_smb_relay

8 auxiliary/scanner/smb/smb_enumusers_domain

9 auxiliary/scanner/smb/smb_enum_spn

9 auxiliary/scanner/smb/smb_benum_spn

103 auxiliary/scanner/smb/smb_benumusers

104 auxiliary/scanner/smb/smb_benumusers

105 auxiliary/scanner/smb/smb_enumusers

106 auxiliary/scanner/smb/smb_benumusers

107 auxiliary/scanner/smb/smb_enumusers

108 auxiliary/scanner/smb/smb_enumusers

109 auxiliary/scanner/smb/smb_enumusers

100 auxiliary/scanner/smb/smb_enumusers

107 auxiliary/scanner/smb/smb_enumusers

108 auxiliary/scanner/smb/smb_enumusers

109 auxiliary/scanner/smb/smb_enumusers

100 auxiliary/scanner/smb/smb_enumusers

101 auxiliary/scanner/smb/smb_enumusers

102 auxiliary/scanner/smb/smb_enumusers

103 auxiliary/scanner/smb/smb_enumusers

104 auxiliary/scanner/smb/smb_enumusers

105 auxiliary/scanner/smb/smb_enumusers

106 auxiliary/scanner/smb/smb_enumusers

107 auxiliary/scanner/smb/smb_enumusers

108 auxiliary/scanner/smb/smb_enumusers

109 auxiliary/scanner/smb/smb_enumusers

100 auxiliary/scanner/smb/smb_enumusers

101 auxiliary/scanner/smb/smb_enumusers

102 auxiliary/scanner/smb
```

```
msf6 > use auxiliary/scanner/smb/smb_ms17_010
msf6 auxiliary(scanner/smb/smb_ms17_010) > show options
Module options (auxiliary/scanner/smb/smb_ms17_010):
                                    Current Setting
                                                                                                                                                                                       Required Description
       Name
                                                                                                                                                                                                             Check for architecture on vulnerable hosts
Check for DOUBLEPULSAR on vulnerable hosts
Check for named pipe on vulnerable hosts
List of named pipes to check
The target host(s), see https://docs.metasploit.com/docs/using-metasploit
The SMB service port (TCP)
The Windows domain to use for authentication
The password for the specified username
The username to authenticate as
The number of concurrent threads (max one per host)
      CHECK_ARCH
CHECK_DOPU
CHECK_PIPE
NAMED_PIPES
                                                                                                                                                                                       по
                                    /usr/share/metasploit-framework/data/wordlists/named_pipes.txt
                                                                                                                                                                                       yes
      RHOSTS
RPORT
SMBDomain
                                    445
                                                                                                                                                                                       yes
no
      SMBPass
SMBUser
       THREADS
View the full module info with the info, or info -d command.
                                       .anner/smb/smb_ms17_010) > set RHOSTS 192.168.10.35
\begin{array}{l} \underline{\mathsf{msf6}} \text{ auxiliary(scanner/smb/smb_ms17_010)} > \mathsf{set} \\ \mathsf{RHOSTS} \Rightarrow 192.168.10.35 \\ \underline{\mathsf{msf6}} \text{ auxiliary(scanner/smb/smb_ms17_010)} > \mathsf{run} \\ \end{array}
[-1 192.168.10.35:445 - An SMB Login Error occurred while connecting to the IPC$ tree.
[*] 192.168.10.35:445 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

In this way we can run a scan on any system we can gain the access of the system too if it is we find the vulnerabili es in that auxiliary scan.