## Assignment-2:

Name: Gadey Sathwik

Reg.no: 21bce8137

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.

```
$ 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)
PORT STATE SERVICE VERSION
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds?
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\x20nt\x20allowed\x20to\
SF:x20connect\x20to\x20this\x20mySQL\x20server")%r(GenericLines,45,"\0\0\0
 SF:\xffj\x04Host\x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20connect\x
SF:20to\x20this\x20MySQL\x20server")%r(GetRequest,45,"\0\0\xffj\x04Host\
SF:x20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x
SF:20MySQL\x20server")%r(HTTPOptions,45,"\0\0\0\xfj\x04Host\x20'VISHNU-PC
SF:'\x20is\x20not\x20allowed\x20to\x20connect\x20this\x20MySQL\x20se
SF:rver")%r(RTSPRequest,45,*\0\0\0\xffj)x04Host\x200'\ISHNU-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\x
SF:x20'\ISHNU-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\x20connect\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\xSF:20'VISHNU-PC'\x20is\x20not\x20allowed\x20to\x20connect\x20to\x20this\x20 | x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x20this\x2
 SF:OMySQL\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
 map.org/submit/
 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".

```
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.
                                        annor/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.