192.168.1.94 (windows Server RPC)



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Nmap

Nmap is a short form of Network Mapper and it's an open-source tool that is used for mapping networks, auditing and security scanning of the networks. The reason behind its development is to quickly find large networks at a specific location. For the discovery of networks, the raw IP packets are used by Nmap.

```
)-[/home/kali]
mmap -sS -sV -T5 -p- 192.168.1.94
Starting Nmap 7.93 (https://nmap.org ) at 2023-04-26 00:48 EDT
Warning: 192.168.1.94 giving up on port because retransmission cap hit (2).
Stats: 0:00:48 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan SYN Stealth Scan Timing: About 55.94% done; ETC: 00:50 (0:00:37 remaining) Stats: 0:03:04 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan Service scan Timing: About 91.30% done; ETC: 00:51 (0:00:10 remaining)
Stats: 0:04:12 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan NSE Timing: About 99.90% done; ETC: 00:52 (0:00:00 remaining)
Nmap scan report for 192.168.1.94
Host is up (0.0049s latency).
Not shown: 65431 closed tcp ports (reset), 58 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/tcp
           open ssh
                                           OpenSSH 7.1 (protocol 2.0)
53/tcp
                                           Microsoft DNS 6.1.7601 (1DB1446A) (Windows Server 2008 R2 SP1)
           open domain
80/tcp
                                           Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
           open http
135/tcp
                                           Microsoft Windows RPC
           open msrpc
139/tcp
                                           Microsoft Windows netbios-ssn
           open netbios-ssn
445/tcp
           open microsoft-ds
                                           Microsoft Windows Server 2008 R2 - 2012 microsoft-ds
1617/tcp open java-rmi
                                            Java RMI
                                           MySQL 5.5.20-log
Microsoft Terminal Service
3306/tcp open mysql
3389/tcp open ms-wbt-server
3700/tcp open giop
                                           CORBA naming service
4848/tcp open ssl/http
                                           Oracle Glassfish Application Server
5985/tcp open http
                                           Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
                   java-message-service Java Message Service 301
7676/tcp open
8009/tcp
                   ajp13
                                           Apache Jserv (Protocol v1.3)
           open
8019/tcp open
                  qbdb?
8020/tcp open
                                          Apache httpd
                   http
                                           Apache Tomcat/Coyote JSP engine 1.1
8022/tcp open http
8027/tcp
                   papachi-p2p-srv?
           open
8028/tcp open unknown
8031/tcp
                  ssl/unknown
           open
8032/tcp open desktop-central
                                           ManageEngine Desktop Central DesktopCentralServer
8080/tcp open http
                                           Sun GlassFish Open Source Edition 4.0
8181/tcp open ssl/http
                                            Oracle GlassFish 4.0 (Servlet 3.1; JSP 2.3; Java 1.8)
                                           Apache Tomcat/Coyote JSP engine 1.1
8282/tcp open http
8383/tcp open ssl/http
8443/tcp open
                   ssl/https-alt?
8444/tcp open
                  desktop-central
                                           ManageEngine Desktop Central DesktopCentralServer
8484/tcp open
                                            Jetty winstone-2.8
                   http
                                            Apache httpd 2.2.21 ((Win64) PHP/5.3.10 DAV/2)
8585/tcp open http
                                            Java RMI
8686/tcp open
                   java-rmi
9200/tcp open wap-wsp?
9300/tcp
                  vrace?
           open
```

Here, we've found the open ports so, let's do for the port 445 for eternalblue exploit if exist or not.

Nmap NSE Scripts

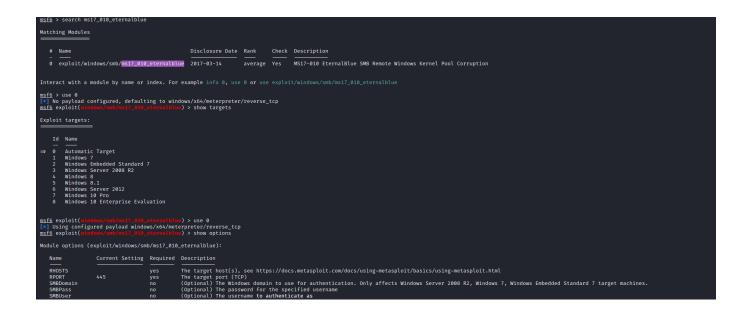
Here, in this script we can search for the eternalblue exploit if it is vulnerable or not, if this port number is vulnerable then we can exploit. It.

```
)-[/home/kali]
The map -p445 --script vuln smb-vuln-ms17-010 192.168.1.94
Starting Nmap 7.93 ( https://nmap.org ) at 2023-04-26 01:04 EDT
Failed to resolve "smb-vuln-ms17-010".
Nmap scan report for 192.168.1.94
Host is up (0.056s latency).
PORT STATE SERVICE
445/tcp open microsoft-ds
MAC Address: D8:F3:BC:6D:2B:FD (Liteon Technology)
Host script results:
 _smb-vuln-ms10-054: false
 _smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED
  smb-vuln-ms17-010:
     VULNERABLE:
    Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
      State: VULNERABLE
      IDs: CVE:CVE-2017-0143
Risk factor: HIGH
         A critical remote code execution vulnerability exists in Microsoft SMBv1
          servers (ms17-010).
       Disclosure date: 2017-03-14
       References:
         https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
         https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
 _samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
Nmap done: 1 IP address (1 host up) scanned in 16.28 seconds
```

Here, As we can see the smb-vuln-ms10-010 which is vulnerable so, let's exploit it. If we can exploit it we can have a shell of that web server.

Metasploit

Metasploit is the world's leading open-source penetrating framework used by security engineers as a penetration testing system and a development platform that allows to create security tools and exploits. The framework makes hacking simple for both attackers and defenders.



Here, in this above picture we've searched for the exploit that is vulnerable to port 445 i.e. ms17_010_eternalblue. So, we've used and set Rhosts for attacking.

Meterpreter

Here, we've exploited and have a meterpreter shell that we, can view all the files of that web server.

Here, after getting the shell we've found the directory in that web server i.e. we've found in the web server.

Conclusion

- We've to put the firewall i.e. statefull, if stateless we've to update the firewall i.e. an attacker can't get shell.
- We've to make sure that port 445 is secure that an attacker can't attack.