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TOOL BOX WORLD-CLASS TRAINING

Name	Windows Recon: IIS: Nmap Scripts
URL	https://attackdefense.com/challengedetails?cid=2312
Туре	Windows Recon: IIS

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Checking the target IP address.

Note: The target IP address is stored in the "target" file.

Command: cat /root/Desktop/target

```
root@attackdefense:~# zsh

(root@ attackdefense)-[~]

# cat /root/Desktop/target

Target IP Address : 10.0.28.146

(root@ attackdefense)-[~]
```

Step 2: Run a Nmap scan against the target IP.

Command: nmap 10.0.28.146

```
097 051
```

```
(root@ attackdefense) - [~]
# nmap 10.0.28.146
Starting Nmap 7.91 ( https://nmap.org ) at 2021-01-07 16:44 IST
Nmap scan report for ip-10-0-28-146.ap-southeast-1.compute.internal (10.0.28.146)
Host is up (0.0011s latency).
Not shown: 994 closed ports
PORT STATE SERVICE
80/tcp open http
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3306/tcp open mysql
3389/tcp open ms-wbt-server
Nmap done: 1 IP address (1 host up) scanned in 1.68 seconds

(root@ attackdefense) - [~]
```

Step 3: We have discovered that multiple ports are open. We will be focusing on port 80 where the IIS server is running.

Running http-enum nmap script to discover interesting directories.

Command: nmap --script http-enum -sV -p 80 10.0.28.146

```
# nmap --script http-enum -sV -p 80 10.0.28.146

Starting Nmap 7.91 ( https://nmap.org ) at 2021-01-07 16:45 IST

Nmap scan report for ip-10-0-28-146.ap-southeast-1.compute.internal (10.0.28.146)

Host is up (0.0015s latency).

PORT STATE SERVICE VERSION

80/tcp open http Microsoft IIS httpd 10.0

| http-enum:
| /content/: Potentially interesting folder
| /downloads/: Potentially interesting folder
| /webdav/: Potentially interesting folder
| http-server-header: Microsoft-IIS/10.0

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 10.81 seconds
```

We have found three interesting directories i.e content, downloads, and webdav.

Step 4: Running Header script to get the IIS server header information.

Command: nmap --script http-headers -sV -p 80 10.0.28.146

```
# nmap --script http-headers -sV -p 80 10.0.28.146
Starting Nmap 7.91 ( https://nmap.org ) at 2021-01-07 16:46 IST
Nmap scan report for ip-10-0-28-146.ap-southeast-1.compute.internal (10.0.28.146)
Host is up (0.0013s latency).
PORT
        STATE SERVICE VERSION
                           Microsoft IIS httpd 10.0
80/tcp open http
  http-headers:
     Cache-Control: private
     Content-Type: text/html; charset=utf-8
     Location: /Default.aspx
Server: Microsoft-IIS/10.0
     Set-Cookie: ASP.NET_SessionId=1sc3udrc05cg225ihfzxsitc; path=/; Http0nly; SameSite=Lax X-AspNet-Version: 4.0.30319
     Set-Cookie: Server=RE9UTkVUR09BVA==; path=/
     X-Powered-By: ASP.NET
Date: Thu, 07 Jan 2021 11:16:24 GMT
     Connection: close
     Content-Length: 130
 _ (Request type: GET)
_http-server-header: Microsoft-IIS/10.0
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 6.77 seconds
```

Using the Nmap header script, we found information about the running IIS Server as mentioned below.

- IIS Server version is 10.0
- ASP.NET Version is 4.0.30319
- XSS Protection is 0
- The default page of the target web application is /Default.aspx

Step 5: Running http-methods script on /webdav path to discover all allowed methods.

Command: nmap --script http-methods --script-args http-methods.url-path=/webdav/ 10.0.28.146

```
150 160 170 021
```

```
nmap --script http-methods --script-args http-methods.url-path=/webdav/ 10.0.28.146
Starting Nmap 7.91 ( https://nmap.org ) at 2021-01-07 16:49 IST
Nmap scan report for ip-10-0-28-146.ap-southeast-1.compute.internal (10.0.28.146)
Host is up (0.0013s latency).
Not shown: 994 closed ports
PORT
         STATE SERVICE
80/tcp
         open http
 http-methods:
    Supported Methods: OPTIONS TRACE GET HEAD POST COPY PROPFIND DELETE MOVE PROPPATCH MKCOL LOCK UNLOCK PUT
    Potentially risky methods: TRACE COPY PROPFIND DELETE MOVE PROPPATCH MKCOL LOCK UNLOCK PUT
    Path tested: /webdav/
135/tcp open msrpc
139/tcp
                netbios-ssn
         open
445/tcp open
                microsoft-ds
3306/tcp open
                mysql
3389/tcp open
                ms-wbt-server
Nmap done: 1 IP address (1 host up) scanned in 1.92 seconds
```

We have discovered all supported methods on /webdav directory.

Step 6: Running webdav scan Nmap script to identify WebDAV installations the script uses the OPTIONS and PROPFIND methods to detect it.

Command: nmap --script http-webdav-scan --script-args http-methods.url-path=/webdav/ 10.0.28.146

```
mmap --script http-webdav-scan --script-args http-methods.url-path=/webdav/ 10.0.28.146
Starting Nmap 7.91 ( https://nmap.org ) at 2021-01-07 16:51 IST
Nmap scan report for ip-10-0-28-146.ap-southeast-1.compute.internal (10.0.28.146)
Host is up (0.0012s latency).
Not shown: 994 closed ports
PORT STATE SERVICE
80/tcp
              open http
  http-webdav-scan:
      Public Options: OPTIONS, TRACE, GET, HEAD, POST, PROPFIND, PROPPATCH, MKCOL, PUT, DELETE, COPY, MOVE, LOCK, UNLOCK Allowed Methods: OPTIONS, TRACE, GET, HEAD, POST, COPY, PROPFIND, LOCK, UNLOCK Server Type: Microsoft-IIS/10.0
      Server Date: Thu, 07 Jan 2021 11:21:15 GMT WebDAV type: Unknown
135/tcp open msrpc
139/tcp
              open
                        netbios-ssn
445/tcp open
                        microsoft-ds
3306/tcp open
                       mysql
3389/tcp open ms-wbt-server
Nmap done: 1 IP address (1 host up) scanned in 2.18 seconds
```

References:

- 1. Nmap (https://nmap.org/)
- 2. Nmap scripts (https://nmap.org/nsedoc/scripts/)