Information Security Management

Lab Assignment 4

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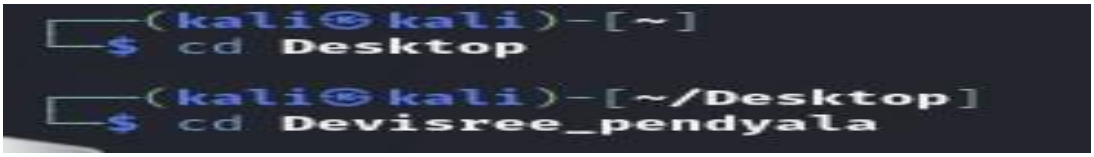
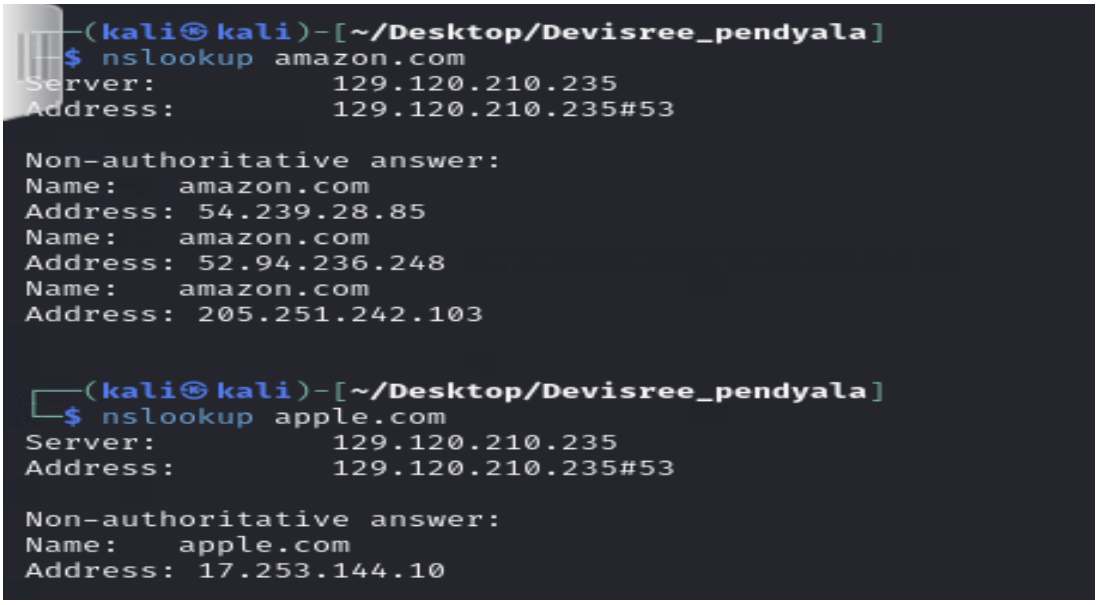
1. **Command : mkdir**

Solution :



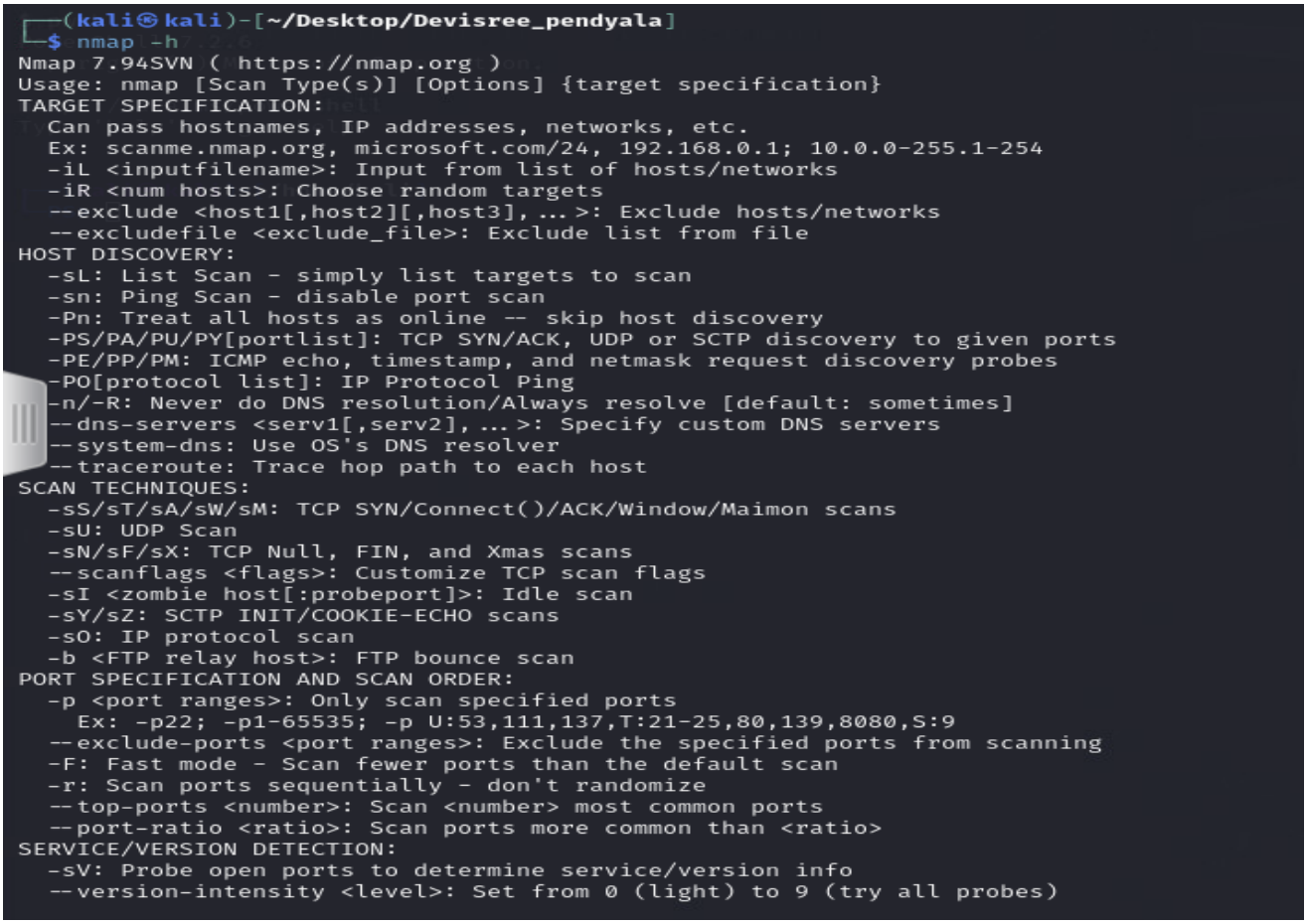
2. **Command : nslookup <targethost>**

Solution :



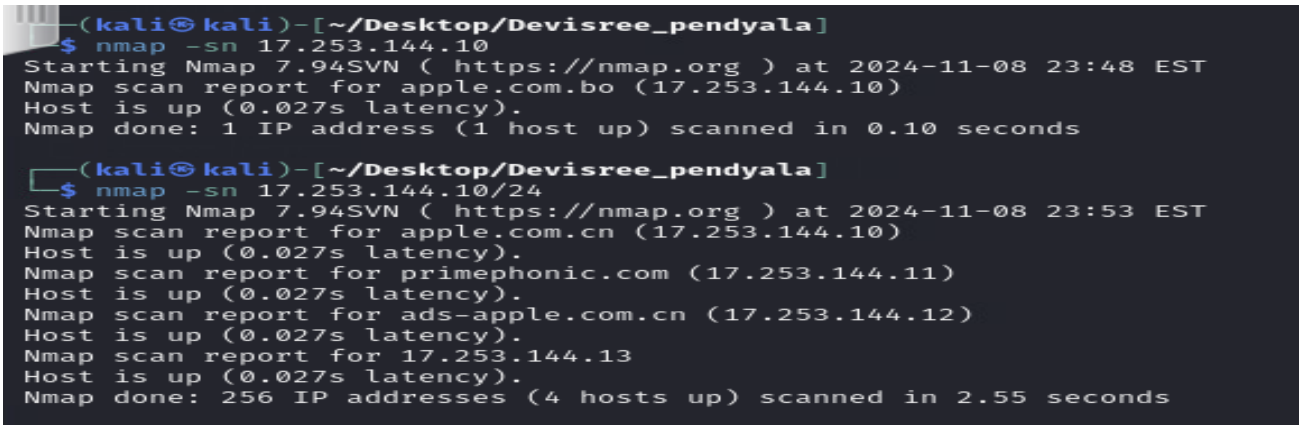
3.Command : nmap -h (Help Summary page)

Solution :



4.Command : nmap -sn <target> (Ping Scan)

Solution :



5.Command : nmap -sL<target> (List Scan)

Solution:

```
┌──(kali㉿kali)-[~/Desktop/Devisree_pendyala]
└─$ nmap -sL 17.253.144.10/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-08 23:54 EST
Nmap scan report for 17.253.144.0
Nmap scan report for 17.253.144.1
Nmap scan report for 17.253.144.2
Nmap scan report for 17.253.144.3
Nmap scan report for 17.253.144.4
Nmap scan report for 17.253.144.5
Nmap scan report for 17.253.144.6
Nmap scan report for 17.253.144.7
Nmap scan report for 17.253.144.8
Nmap scan report for 17.253.144.9
Nmap scan report for apple.com.co (17.253.144.10)
Nmap scan report for maps.apple (17.253.144.11)
Nmap scan report for ads-apple.apple.com.cn (17.253.144.12)
Nmap scan report for 17.253.144.13
Nmap scan report for 17.253.144.14
Nmap scan report for 17.253.144.15
Nmap scan report for 17.253.144.16
Nmap scan report for 17.253.144.17
Nmap scan report for 17.253.144.18
Nmap scan report for 17.253.144.19
Nmap scan report for 17.253.144.20
Nmap scan report for 17.253.144.21
Nmap scan report for 17.253.144.22
Nmap scan report for 17.253.144.23
Nmap scan report for 17.253.144.24
Nmap scan report for 17.253.144.25
Nmap scan report for 17.253.144.26
Nmap scan report for 17.253.144.27
Nmap scan report for 17.253.144.28
Nmap scan report for 17.253.144.29
Nmap scan report for 17.253.144.30
Nmap scan report for 17.253.144.31
Nmap scan report for 17.253.144.32
Nmap scan report for 17.253.144.33
Nmap scan report for 17.253.144.34
Nmap scan report for 17.253.144.35
Nmap scan report for 17.253.144.36
Nmap scan report for 17.253.144.37
```

6.Command : nmap <target> (Scan all Ports)

Solution:

```
┌──(kali㉿kali)-[~/Desktop/Devisree_pendyala]
└─$ nmap 17.253.144.10
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-08 23:56 EST
Nmap scan report for apple.com.do (17.253.144.10)
Host is up (0.028s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https

Nmap done: 1 IP address (1 host up) scanned in 4.07 seconds
```

7.Command : nmap <port#> <target> (Scan Specific Ports)

Solution :

```
┌──(kali㉿kali)-[~/Desktop/Devisree_pendyala]
└─$ nmap -p443 17.253.144.10
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-10 10:31 EST
Nmap scan report for livepage.apple.com (17.253.144.10)
Host is up (0.040s latency).

PORT    STATE SERVICE
443/tcp open  https

Nmap done: 1 IP address (1 host up) scanned in 0.15 seconds
```

8.Command : nmap -sV<target>

Solution:

```
┌──(kali㉿kali)-[~/Desktop/Devisree_pendyala]
└─$ nmap -sV 17.253.144.10
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-10 10:32 EST
Stats: 0:00:16 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 50.00% done; ETC: 10:33 (0:00:13 remaining)
Nmap scan report for seminars.apple.com (17.253.144.10)
Host is up (0.027s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT    STATE SERVICE   VERSION
80/tcp  open  http
443/tcp open  ssl/https
2 services unrecognized despite returning data. If you know the service/version, please submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service :
==============NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)==============
SF-Port80-TCP:V=7.94SVN%I=7%D=11/10%Time=6730D22D%P=x86_64-pc-linux-gnu%r(
SF:GetRequest,2EF,"HTTP/1\.0\x20400\x20Host\x20Header\x20Required\r\nDate:
SF:\x20Sun,\x2010\x20Nov\x202024\x2015:33:01\x20GMT\r\nVia:\x20http/1\.1\x
SF:20usmsc2-edge-bx-006\.ts\.apple\.com\x20\(acdn/262\.14454\)\r\nCache-Co
SF:ntrol:\x20no-store\r\nContent-Type:\x20text/html\r\nContent-Language:\x
SF:20en\r\nX-Cache:\x20none\r\nCDNUUID:\x201824575c-1e62-46b9-8c21-abae929
SF:f59e4-6873897577\r\nContent-Length:\x20447\r\n\r\n<HTML>\n<HEAD>\n<TITL
SF:E>Host\x20Header\x20Required</TITLE>\n</HEAD>\n\n<BODY\x20BGCOLOR=\"whi
SF:te\"\x20FGCOLOR=\"black\">\n<H1>Host\x20Header\x20Required</H1>\n<HR>\n
SF:\n<FONT\x20FACE=\"Helvetica,Arial\"><B>\nDescription:\x20Your\x20browse
SF:r\x20did\x20not\x20send\x20a\x20\"Host\"\x20HTTP\x20header\x20field\nan
SF:d\x20therefore\x20the\x20virtual\x20host\x20being\x20requested\x20could
SF:\x20not\x20be\x20determined\.\nTo\x20access\x20this\x20web\x20site\x20c
SF:orrectly,\x20you\x20will\x20need\x20to\x20upgrade\x20to\x20a\x20browser
SF:\nthat\x20supports\x20the\x20HTTP\x20\"Host\"\x20header\x20field\.\n</B
SF:></FONT>\n<HR>\n</BODY>\n")%r(HTTPOptions,2EF,"HTTP/1\.0\x20400\x20Host
SF:\x20Header\x20Required\r\nDate:\x20Sun,\x2010\x20Nov\x202024\x2015:33:0
SF:1\x20GMT\r\nVia:\x20http/1\.1\x20usmsc2-edge-bx-004\.ts\.apple\.com\x20
SF:\(acdn/262\.14454\)\r\nCache-Control:\x20no-store\r\nContent-Type:\x20t
SF:ext/html\r\nContent-Language:\x20en\r\nX-Cache:\x20none\r\nCDNUUID:\x20
SF:8aa5a482-20f1-4870-b734-1f5d7a264152-3845716884\r\nContent-Length:\x204
SF:47\r\n\r\n<HTML>\n<HEAD>\n<TITLE>Host\x20Header\x20Required</TITLE>\n</
SF:HEAD>\n\n<BODY\x20BGCOLOR=\"white\"\x20FGCOLOR=\"black\">\n<H1>Host\x20
SF:Header\x20Required</H1>\n<HR>\n\n<FONT\x20FACE=\"Helvetica,Arial\"><B>\
SF:nDescription:\x20Your\x20browser\x20did\x20not\x20send\x20a\x20\"Host\"
SF:\x20HTTP\x20header\x20field\nand\x20therefore\x20the\x20virtual\x20host
```

G. Command : nmap <target> with *

Solution:

```
┌──(kali㉿kali)-[~/Desktop/Devisree_pendyala]
└─$ nmap 17.253.144.*
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-09 00:03 EST
Stats: 0:00:43 elapsed; 252 hosts completed (4 up), 4 undergoing Connect Scan
Connect Scan Timing: About 74.97% done; ETC: 00:04 (0:00:14 remaining)
Nmap scan report for squeakytoytrainingcamp.com (17.253.144.10)
Host is up (0.030s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https

Nmap scan report for maps.apple (17.253.144.11)
Host is up (0.034s latency).
Not shown: 997 filtered tcp ports (no-response), 1 filtered tcp ports (host-unreach)
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https

Nmap scan report for swift.org (17.253.144.12)
Host is up (0.033s latency).
Not shown: 996 filtered tcp ports (no-response), 2 filtered tcp ports (host-unreach)
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https

Nmap scan report for 17.253.144.13
Host is up (0.029s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https

Nmap done: 256 IP addresses (4 hosts up) scanned in 49.92 seconds
```

10. Command : nmap -A <target>

Solution:

```
┌──(kali㉿kali)-[~/Desktop/Devisree_pendyala]
└─$ nmap -A 17.253.144.13
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-11-09 00:06 EST
Nmap scan report for 17.253.144.13
Host is up (0.028s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT    STATE SERVICE   VERSION
80/tcp  open  http
| fingerprint-strings:
|   GetRequest:
|     HTTP/1.0 400 Host Header Required
|     Date: Sat, 09 Nov 2024 05:06:32 GMT
|     Via: http/1.1 usmsc2-edge-bx-005.ts.apple.com (acdn/262.14454)
|     Cache-Control: no-store
|     Content-Type: text/html
|     Content-Language: en
|     X-Cache: none
|     CDNUUID: 8a4ac5e4-5ef2-4ea0-b0b8-3bc8bcea97bb-7838191835
|     Content-Length: 447
|     <HTML>
|     <HEAD>
|     <TITLE>Host Header Required</TITLE>
|     </HEAD>
|     <BODY BGCOLOR="white" FGCOLOR="black">
|     <H1>Host Header Required</H1>
|     <HR>
|     <FONT FACE="Helvetica,Arial"><B>
|     Description: Your browser did not send a "Host" HTTP header field
|     therefore the virtual host being requested could not be determined.
|     access this web site correctly, you will need to upgrade to a browser
|     that supports the HTTP "Host" header field.
|     </B></FONT>
|     <HR>
|     </BODY>
|   HTTPOptions:
|     HTTP/1.0 400 Host Header Required
|     Date: Sat, 09 Nov 2024 05:06:32 GMT
|     Via: http/1.1 usmsc2-edge-bx-004.ts.apple.com (acdn/262.14454)
```

11.Command : sudo nmap -O<target>

Solution: