

## School of Information Technology and Engineering Lab Assessment-VII, OCTOBER 2020 B.Tech., Fall-2020-2021

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COURSE NAME	INFORMATION SECURITY ANALYSIS & AUDIT
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Create a Type the following commands in zenmap. Use different IP address and generate a report. Take a screen shot and write your comments on each command.

1. Scan a Host to Detect Firewall: namp –sA vit.ac.in

```
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 00:46 India Standard Time Nmap scan report for vit.ac.in (136.233.9.13)
Host is up (0.070s latency).
rDNS record for 136.233.9.13: 136.233.9.13.static.jio.com
All 1000 scanned ports on vit.ac.in (136.233.9.13) are filtered

Nmap done: 1 IP address (1 host up) scanned in 9.74 seconds
All the ports are filtered meaning there is a Firewall present.
```

2. Scan a host if it is protected by any packet filtering software or Firewalls: nmap -PN vit.ac.in

```
nmap -Pn vit.ac.in
 Starting Nmap 7.80 (https://nmap.org) at 2020-10-17 00:55 India Standard Time
 Nmap scan report for vit.ac.in (136.233.9.13)
 Host is up (0.067s latency).
 rDNS record for 136.233.9.13: 136.233.9.13.static.jio.com
 Not shown: 992 closed ports
 PORT
         STATE
                  SERVICE
 53/tcp filtered domain
 80/tcp open
                 http
 135/tcp filtered msrpc
 139/tcp filtered netbios-ssn
 443/tcp open
                https
 444/tcp filtered snpp
 445/tcp filtered microsoft-ds
 515/tcp filtered printer
 Nmap done: 1 IP address (1 host up) scanned in 4.83 seconds
The ports are filtered therefore the host is protected by a Firewall.
```

3. Complete a scan in Stealth Mode: nmap -sS vit.ac.in

```
nmap -sS vit.ac.in
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:23 India Standard Time
Nmap scan report for vit.ac.in (136.233.9.13)
Host is up (0.063s latency).
rDNS record for 136.233.9.13: 136.233.9.13.static.jio.com
Not shown: 992 closed ports
PORT
        STATE
                 SERVICE
53/tcp filtered domain
80/tcp open
                http
135/tcp filtered msrpc
139/tcp filtered netbios-ssn
              https
443/tcp open
444/tcp filtered snpp
445/tcp filtered microsoft-ds
515/tcp filtered printer
Nmap done: 1 IP address (1 host up) scanned in 5.03 seconds
```

4. Identify Host Names: nmap -sL vit.ac.in

```
nmap -sL vit.ac.in

Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:26 India Standard Time Nmap scan report for vit.ac.in (136.233.9.13) rDNS record for 136.233.9.13: 136.233.9.13.static.jio.com

Nmap done: 1 IP address (0 hosts up) scanned in 1.05 seconds
```

5. Scan IPv6 Addresses: nmap -6 ::ffff:c0a8:1

```
nmap -6 fe80::f433:85e9:9870:6cdf%4

Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:30 India Standard Time Nmap scan report for fe80::f433:85e9:9870:6cdf Host is up (0.0010s latency).

Not shown: 996 closed ports
PORT STATE SERVICE
135/tcp open msrpc
445/tcp open microsoft-ds
808/tcp open ccproxy-http
2869/tcp open icslap

Nmap done: 1 IP address (1 host up) scanned in 1.88 seconds
```

6. Create Decoys while scanning: nmap -D 192.168.0.1, 192.168.0.2 192.168.101.4

```
nmap -D 192.168.0.1,192.168.0.2 192.168.101.4
```

```
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:36 India Standard Time Nmap scan report for 192.168.101.4 Host is up (0.0035s latency).

Not shown: 994 closed ports PORT STATE SERVICE 135/tcp open msrpc 139/tcp open netbios-ssn 445/tcp open microsoft-ds 808/tcp open ccproxy-http 2869/tcp open icslap 7070/tcp open realserver
```

Nmap done: 1 IP address (1 host up) scanned in 2.11 seconds

Used 192.168.0.1 and 192.168.0.2 as decoys while scanning 192.168.101.4

7. Scan remote Hosts using SCTP: nmap -sZ --top-ports 20 -T4 192.168.101.1/24

Top 20 ports of each host scanned using SCTP.

PTO.

```
nmap -sZ -T4 --top-ports 20 192.168.101.1/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:38 India Standard Time
Nmap scan report for 192.168.101.1
Host is up (0.00s latency).
PORT
          STATE
                        SERVICE
          open filtered echo
7/sctp
         filtered discard
9/sctp
20/sctp open|filtered ftp-data
21/sctp filtered
                     ftp
22/sctp open|filtered ssh
80/sctp open|filtered http
179/sctp open filtered bgp
443/sctp open|filtered https
1167/sctp open|filtered cisco-ipsla
1812/sctp filtered
                       radius
1813/sctp open|filtered radacct
2049/sctp filtered
2225/sctp filtered
                       rcip-itu
2427/sctp filtered
                       mgcp-gateway
2904/sctp open filtered m2ua
2905/sctp open|filtered m3ua
2944/sctp open|filtered megaco-h248
2945/sctp filtered
                       h248-binary
3097/sctp open|filtered itu-bicc-stc
3565/sctp open|filtered m2pa
MAC Address: E0:67:B3:A8:9F:95 (Shenzhen C-Data Technology)
```

8. Scan output in xml format: nmap -oX scan-report.xml -n 192.168.101.1

Output is saved as scan-report.xml

9. Save nmap outputs: nmap -n 192.168.101.1 > scan-report

```
17-10-2020
                                           918 scan-report
            17-10-2020 00 02:06 nmap -n 5892 scan-report.xml n-repor
PS C:\> more scan-report
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 02:09 India Standard Time
Nmap scan report for 192.168.101.1
Host is up (0.0042s latency).
Not shown: 995 closed ports
                SERVICE
21/tcp filtered ftp
23/tcp open
80/tcp open
                http
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: E0:67:B3:A8:9F:95 (Shenzhen C-Data Technology)
map done: 1 IP address (1 host up) scanned in 3.73 seconds
```

10. Using multiple script categories: nmap --script discovery brute 192.168.101.1

```
PS C:\> nmap
                     discovery brute 192.168.101.1
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 02:12 India Standard Time
coo short
coo short
too short
coo short
coo short
Pre-scan script results:
 broadcast-igmp-discovery:
   192.168.101.4
     Interface: eth3
     Version: 2
     Description: Organization-Local Scope (rfc2365)
   Use the newtargets script-arg to add the results as targets
 ipv6-multicast-mld-list:
   fe80::1:
     device: eth3
     mac: e0:67:b3:a8:9f:95
     multicast ips:
       ff02::1:ff00:0
                                  (Solicited-Node Address)
       ff02::1:ff00:1
                                  (NDP Solicited-node)
       ff02::2
                                  (All Routers Address)
       ff02::1:ffa8:9f95
                                  (Solicited-Node Address)
   fe80::4eed:fbff:fe21:c71a:
     device: eth3
```

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