

# Task 1: Scan Your Local Network for Open Ports

1. Install Nmap from official website.

```
root@kali:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:95:57:6b brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.21/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0
        valid_lft 338sec preferred_lft 338sec
    inet 192.168.1.36/24 brd 192.168.1.255 scope global dynamic noprefixroute eth0
        valid_lft 86316sec preferred_lft 86316sec
    inet6 fe80::a00:27ff:fe95:576b/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

2. Find your local IP range

```
root@kali:~# ip -o -4 addr show | awk '{print $4}'
127.0.0.1/8
192.168.1.36/24
```

3. Perform TCP SYN scan

```
root@kali:~# nmap -sS 192.168.1.36/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-10-20 18:47 IST
Nmap scan report for 192.168.1.1
Host is up (0.0037s latency).
Not shown: 992 closed tcp ports (reset)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
23/tcp    filtered telnet
53/tcp    open  domain
80/tcp    open  http
139/tcp   filtered netbios-ssn
443/tcp   open  https
445/tcp   filtered microsoft-ds
MAC Address: 54:47:E8:13:3C:F0 (Syrotech Networks.)

Nmap scan report for 192.168.1.33
Host is up (0.00086s latency).
Not shown: 995 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
2869/tcp  open  iclap
MAC Address: 48:CD:35:80:3B:AD (Unknown)

Nmap scan report for 192.168.1.40
Host is up (0.0049s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE
5060/tcp  filtered sip
MAC Address: BE:47:EA:92:91:A1 (Unknown)

Nmap scan report for 192.168.1.36
Host is up (0.0000050s latency).
All 1000 scanned ports on 192.168.1.36 are in ignored states.
Not shown: 1000 closed tcp ports (reset)

Nmap done: 256 IP addresses (4 hosts up) scanned in 9.95 seconds
```

Capturing packets for wireshark:

Transform that XML to HTML with xsltproc using Nmap's XSL stylesheet.

```
root@kali:~# sudo apt update && sudo apt install -y xsltproc
Hit:1 https://zsecurity.org/custom-kali-sources kali-last-snapshot InRelease
Hit:2 https://zsecurity.org/custom-kali-sources-i386 kali-last-snapshot InRelease
All packages are up to date.
The following packages were automatically installed and are no longer required:
  libdbus-glib-1-2 libpython2-stdlib libpython2.7-minimal libpython2.7-stdlib python2-minimal python2.7 python2.
7-minimal
Use 'sudo apt autoremove' to remove them.

Installing:
  xsltproc

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 0
  Download size: 114 kB
  Space needed: 155 kB / 50.4 GB available

Get:1 https://zsecurity.org/custom-kali-sources kali-last-snapshot/main amd64 xsltproc amd64 1.1.35-1.1 [114 kB]
Fetched 114 kB in 1s (82.5 kB/s)
Selecting previously unselected package xsltproc.
(Reading database ... 423126 files and directories currently installed.)
Preparing to unpack .../xsltproc_1.1.35-1.1_amd64.deb ...
Unpacking xsltproc (1.1.35-1.1) ...
Setting up xsltproc (1.1.35-1.1) ...
Processing triggers for kali-menu (2024.3.1) ...
Processing triggers for man-db (2.12.1-2) ...
```

Save the syn scan as xml file

```
root@kali:~# sudo nmap -sS 192.168.1.36/24 -oX synscan.xml
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-10-20 18:56 IST
Nmap scan report for 192.168.1.1
Host is up (0.0031s latency).
Not shown: 992 closed tcp ports (reset)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
23/tcp    filtered telnet
53/tcp    open  domain
80/tcp    open  http
139/tcp    filtered netbios-ssn
443/tcp    open  https
445/tcp    filtered microsoft-ds
MAC Address: 54:47:E8:13:3C:F0 (Syrotech Networks.)

Nmap scan report for 192.168.1.33
Host is up (0.00039s latency).
Not shown: 995 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
135/tcp    open  msrpc
139/tcp    open  netbios-ssn
445/tcp    open  microsoft-ds
2869/tcp  open  iclslap
MAC Address: 48:CD:35:80:3B:AD (Unknown)

Nmap scan report for 192.168.1.36
Host is up (0.0000050s latency).
All 1000 scanned ports on 192.168.1.36 are in ignored states.
Not shown: 1000 closed tcp ports (reset)

Nmap done: 256 IP addresses (3 hosts up) scanned in 7.56 seconds
```

Converting xml to html

```
root@kali:~# xsltproc -o synscan.html /usr/share/nmap/nmap.xsl synscan.xml
Warning: program compiled against libxml 212 using older 209
root@kali:~# xdg-open synscan.html
```

TCP Syn scan report as html:

Nmap Scan Report - Scanned at Mon Oct 20 18:56:21 2025

Scan Summary | 192.168.1.1 | 192.168.1.33 | 192.168.1.36

Scan Summary

Nmap 7.94SVN was initiated at Mon Oct 20 18:56:21 2025 with these arguments:  
nmap -sS -oX synscan.xml 192.168.1.36/24

Verbosity: 0; Debug level 0

Nmap done at Mon Oct 20 18:56:28 2025; 256 IP addresses (3 hosts up) scanned in 7.56 seconds

192.168.1.1

Address

- 192.168.1.1 (ipv4)
- 54:47:E8:13:3C:F0 - Syrotech Networks. (mac)

Ports

The 992 ports scanned but not shown below are in state: closed

- 992 ports replied with: reset

Port		State (toggle closed [0]   filtered [3])	Service	Reason	Product	Version	Extra info
21	tcp	open	ftp	syn-ack			
22	tcp	open	ssh	syn-ack			
53	tcp	open	domain	syn-ack			
80	tcp	open	http	syn-ack			
443	tcp	open	https	syn-ack			

Misc Metrics (click to expand)

192.168.1.33

Address

- 192.168.1.33 (ipv4)
- 48:CD:35:80:3B:AD (mac)



Ports

The 995 ports scanned but not shown below are in state: filtered

- 995 ports replied with: no-response

Port		State (toggle closed [0]   filtered [0])	Service	Reason	Product	Version	Extra info
80	tcp	open	http	syn-ack			
135	tcp	open	msrpc	syn-ack			
139	tcp	open	netbios-ssn	syn-ack			
445	tcp	open	microsoft-ds	syn-ack			
2869	tcp	open	icslap	syn-ack			

Misc Metrics (click to expand)

192.168.1.36

Address

- 192.168.1.36 (ipv4)

Ports

The 1000 ports scanned but not shown below are in state: closed

- 1000 ports replied with: reset

Go to top

## Wireshark scan:

Oct 20 7:25 PM  
synscan.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter: tcp.flags.reset

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.36	3.233.158.24	TCP	60	39940 → 443 [ACK] Seq=1 Ack=1 Win=249 Len=0 TSval=2649605189 TSecr=837182069
2	0.238677	3.233.158.24	192.168.1.36	TCP	66	[TCP Acked unseen segment] 443 → 39940 [ACK] Seq=1 Ack=2 Win=77 Len=0 TSval=837113144 TSecr=2649605189
3	0.244797	192.168.1.36	3.233.158.24	TCP	66	[TCP Dup ACK 1st] 39940 → 443 [ACK] Seq=1 Ack=1 Win=249 Len=0 TSval=2649605189 TSecr=837113144
4	0.483647	3.233.158.24	192.168.1.36	TCP	66	[TCP Dup ACK 2nd] 443 → 39940 [ACK] Seq=1 Ack=2 Win=77 Len=0 TSval=837123389 TSecr=2649605189
5	0.762715	192.168.1.36	192.168.1.36	TLV1.2	98	Application Data
6	0.763608	192.168.1.36	192.168.1.36	TLV1.2	98	Application Data
7	0.777156	192.168.1.36	192.168.1.36	TCP	66	443 → 52784 [ACK] Seq=25 Ack=29 Win=19 Len=0 TSval=4251663575 TSecr=962182733
8	0.837844	34.107.243.93	192.168.1.36	TCP	66	443 → 58526 [FIN, ACK] Seq=1 Ack=1 Win=1844 Len=0 TSval=2527942171 TSecr=277466381
9	0.1258977	192.168.1.36	34.107.243.93	TLV1.2	98	Application Data
10	0.1258977	192.168.1.36	34.107.243.93	TCP	66	58526 → 443 [FIN, ACK] Seq=25 Ack=2 Win=249 Len=0 TSval=27767719 TSecr=2527942171
11	0.1258977	34.107.243.93	192.168.1.36	TCP	66	443 → 58526 [RST] Seq=2 Win=0 Len=0
12	0.1310412	192.168.1.36	192.168.1.36	TLV1.2	105	Application Data
13	0.1310412	192.168.1.36	192.168.1.36	TLV1.2	105	Application Data
14	0.1310412	192.168.1.36	192.168.1.36	TCP	66	36726 → 443 [ACK] Seq=40 Ack=0 Win=7500 Len=0 TSval=1705060540 TSecr=2616480164
15	0.1310412	192.168.1.36	192.168.1.36	TCP	74	58526 → 443 [SYN] Seq=0 Win=32128 Len=0 MSS=1460 SACK_PERM TSval=27772738 TSecr=0 WS=128
16	0.1310412	192.168.1.36	192.168.1.36	TCP	74	443 → 58526 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 SACK_PERM TSval=2430836268 TSecr=27772738 WS=256
17	0.1310412	192.168.1.36	192.168.1.36	TCP	66	58526 → 443 [ACK] Seq=1 Ack=1 Win=32128 Len=0 TSval=27772738 TSecr=2430836268
18	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	2591	Client Hello (SNI=push.services.mozilla.com)
19	0.1310412	192.168.1.36	192.168.1.36	TCP	66	443 → 58526 [ACK] Seq=1 Ack=1 Win=267520 Len=0 TSval=2430836278 TSecr=27772738
20	0.1310412	192.168.1.36	192.168.1.36	TCP	66	443 → 58526 [ACK] Seq=1 Ack=2526 Win=266496 Len=0 TSval=2430836278 TSecr=27772738
21	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	278	Server Hello, Change Cipher Spec, Application Data
22	0.1310412	192.168.1.36	192.168.1.36	TCP	66	58526 → 443 [ACK] Seq=2526 Ack=213 Win=32000 Len=0 TSval=27772738 TSecr=2430836306
23	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	138	Change Cipher Spec, Application Data
24	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	138	Application Data, Application Data
25	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	684	Application Data, Application Data
26	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	97	Application Data
27	0.1310412	192.168.1.36	192.168.1.36	TCP	66	58526 → 443 [ACK] Seq=2682 Ack=862 Win=31872 Len=0 TSval=27772738 TSecr=2430836316
28	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	97	Application Data
29	0.1310412	192.168.1.36	192.168.1.36	TCP	74	58526 → 443 [SYN] Seq=0 Win=32128 Len=0 MSS=1460 SACK_PERM TSval=27772738 TSecr=0 WS=128
30	0.1310412	192.168.1.36	192.168.1.36	TCP	74	443 → 58526 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 SACK_PERM TSval=1877490897 TSecr=27772738 WS=256
31	0.1310412	192.168.1.36	192.168.1.36	TCP	66	58526 → 443 [ACK] Seq=1 Ack=1 Win=32128 Len=0 TSval=27772738 TSecr=1877490897
32	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	1516	Client Hello (SNI=push.services.mozilla.com)
33	0.1310412	192.168.1.36	192.168.1.36	TCP	66	443 → 58526 [ACK] Seq=862 Ack=2713 Win=266496 Len=0 TSval=2430836329 TSecr=27772738
34	0.1310412	192.168.1.36	192.168.1.36	TCP	66	443 → 58526 [ACK] Seq=1 Ack=1251 Win=267776 Len=0 TSval=1877490815 TSecr=27772806
35	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	284	Server Hello, Change Cipher Spec, Application Data
36	0.1310412	192.168.1.36	192.168.1.36	TCP	66	58526 → 443 [ACK] Seq=1251 Ack=219 Win=32000 Len=0 TSval=27772834 TSecr=1877490835
37	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	138	Change Cipher Spec, Application Data
38	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	688	Application Data
39	0.1310412	192.168.1.36	192.168.1.36	TCP	66	443 → 58526 [ACK] Seq=219 Ack=1937 Win=267264 Len=0 TSval=1877490845 TSecr=27772835
40	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	898	Application Data, Application Data
41	0.1310412	192.168.1.36	192.168.1.36	TLV1.3	249	Application Data

Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)  
Ethernet II, Src: PCSysNetec, 95:57:0b:68:80:27:95:57:6b, Dst: SyrotechNetw, 13:3c:f0:54:47:e8:13:3c:f0  
Internet Protocol Version 4, Src: 192.168.1.36, Dst: 3.233.158.24  
Transmission Control Protocol, Src Port: 39940, Dst Port: 443, Seq: 1, Ack: 1, Len: 0

synscan.pcap | Packets: 63 - Displayed: 63 (100.0%) | Profile: Default

## TCP Syn scan:

Oct 20 7:27 PM  
synscan.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

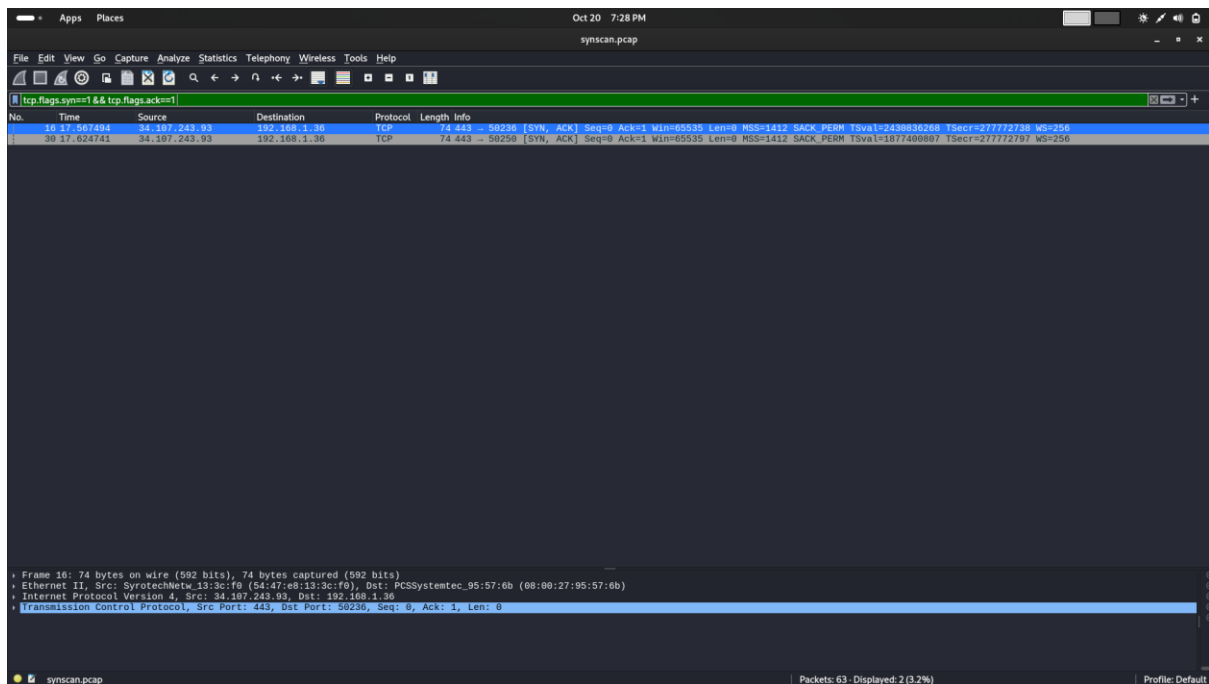
Apply a display filter: tcp.flags.syn==1 && tcp.flags.ack==0

No.	Time	Source	Destination	Protocol	Length	Info
1	0.1310412	192.168.1.36	34.107.243.93	TCP	74	58526 → 443 [SYN] Seq=0 Win=32128 Len=0 MSS=1460 SACK_PERM TSval=27772738 TSecr=0 WS=128
2	0.1310412	192.168.1.36	34.107.243.93	TCP	74	58526 → 443 [SYN] Seq=0 Win=32128 Len=0 MSS=1460 SACK_PERM TSval=27772738 TSecr=0 WS=128

Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)  
Ethernet II, Src: PCSysNetec, 95:57:0b:68:80:27:95:57:6b, Dst: SyrotechNetw, 13:3c:f0:54:47:e8:13:3c:f0  
Internet Protocol Version 4, Src: 192.168.1.36, Dst: 34.107.243.93  
Transmission Control Protocol, Src Port: 58526, Dst Port: 443, Seq: 0, Len: 0

synscan.pcap | Packets: 63 - Displayed: 2 (3.2%) | Profile: Default

TCP SYN ACK scan:



Doing Version Scan to find out the open ports to find if they are vulnerable or not:

```
root@kali:~# sudo nmap -sV -p 80,135,139,445,2869 192.168.1.33
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-10-20 19:42 IST
Nmap scan report for 192.168.1.33
Host is up (0.00028s latency).

PORT      STATE SERVICE      VERSION
80/tcp    open  http         Microsoft IIS httpd 10.0
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds?
2869/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
MAC Address: 48:CD:35:80:3B:AD (Unknown)
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 11.53 seconds
```

Here Microsoft IIS httpd 10.0 seems to be vulnerable so searching for the exploits in that

## DETECTIONS

Plugins

Overview

Plugins Pipeline

Release Notes

Newest

Updated

Search

Nessus Families

WAS Families

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## ANALYTICS

CVEs

Attack Path Techniques

Plugins / Nessus / 49223

Language: English

## MS10-065: Vulnerabilities in Microsoft Internet Information Services (IIS) Could Allow Remote Code Execution (2267960)

MEDIUM

Nessus Plugin ID 49223

Information

Dependencies

Dependents

Changelog

### Synopsis

The remote web server may allow remote code execution.

### Description

The version of IIS installed on the remote host has the following vulnerabilities :

- Sending a specially crafted request for an ASP page on a website hosted by IIS can result in a denial of service. (CVE-2010-1899)
- Sending a specially crafted HTTP request to an IIS server with FastCGI enabled can result in remote code execution. (CVE-2010-2730)
- Sending a specially crafted request to an IIS server running on Windows XP can allow a remote attacker to bypass the need to authenticate to access restricted resources. (CVE-2010-2731)

### Solution

Microsoft has released a set of patches for IIS on Windows XP, 2003, Vista, 2008, 7, and 2008 R2.

### See Also

<https://www.nessus.org/u?cfe6e78>

### Plugin Details

**Severity:** Medium**ID:** 49223**File Name:** smb\_nt\_ms10-065.nasl**Version:** 1.29**Type:** local**Agent:** windows**Family:** [Windows](#) ; [Microsoft Bulletins](#)**Published:** 9/14/2010**Updated:** 8/5/2020**Supported Sensors:** Nessus Agent, Nessus

### Risk Information

**VPR****Risk Factor:** High**Score:** 7.4