

# NMAP TÜM KOMUTLARI NEYE YARADIKLARI VE NASIL DAVRANDIKLARI



Professor Messer's Quick Reference Guide to

# NMAP

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## SCAN OPTION SUMMARY

Scan Name	Command Syntax	Requires Privileged Access	Identifies TCP Ports	Identifies UDP Ports
TCP SYN Scan	-sS	YES	YES	NO
TCP connect() Scan	-sT	NO	YES	NO
FIN Stealth Scan	-sF	YES	YES	NO
Xmas Tree Stealth Scan	-sX	YES	YES	NO
Null Stealth Scan	-sN	YES	YES	NO
Ping Scan	-sP	NO	NO	NO
Version Detection	-sV	NO	NO	NO
UDP Scan	-sU	YES	NO	YES
IP Protocol Scan	-sO	YES	NO	NO
ACK Scan	-sA	YES	YES	NO
Window Scan	-sW	YES	YES	NO
RPC Scan	-sR	NO	NO	NO
List Scan	-sL	NO	NO	NO
Idlescan	-sI	YES	YES	NO
FTP Bounce Attack	-b	NO	YES	NO

## HOST AND PORT OPTIONS

Exclude Targets	--exclude <host1 [,host2],...>
Exclude Targets in File	--excludefile <exclude_file>
Read Targets from File	-iL <inputfilename>
Pick Random Numbers for Targets	-iR <num_hosts>
Randomize Hosts	--randomize_hosts, -rH
No Random Ports	-r
Source Port	--source-port <portnumber>
Specify Protocol or Port Numbers	-p <port_range>
Fast Scan Mode	-F
Create Decoys	-D <decoy1 [,decoy2] [,ME],...>
Source Address	-S <IP_address>
Interface	-e <interface>
List Interfaces	--iflist

## TUNING AND TIMING OPTIONS

Time to Live	--ttl
Use Fragmented IP Packets	-f, -ff
Maximum Transmission Unit	--mtu <databytes>
Data Length	--data-length <databytes>
Host Timeout	--host-timeout <milliseconds>
Initial Round Trip Timeout	--initial-rtt-timeout <milliseconds>
Minimum Round Trip Timeout	--min-rtt-timeout <milliseconds>
Maximum Round Trip Timeout	--max-rtt-timeout <milliseconds>
Maximum Parallel Hosts per Scan	--max-hostgroup <number>
Minimum Parallel Hosts per Scan	--min-hostgroup <number>
Maximum Parallel Port Scans	--max-parallelism <number>
Minimum Parallel Port Scans	--min-parallelism <number>
Minimum Delay Between Probes	--scan-delay <milliseconds>
Maximum Delay Between Probes	--max-scan-delay
Timing Policies	--timing, -T<0 1 2 3 4 5>

## PING OPTIONS

ICMP Echo Request Ping	-PE, -PI
TCP ACK Ping	-PA[portlist], -PT[portlist]
TCP SYN Ping	-PS[portlist]
UDP Ping	-PU[portlist]
ICMP Timestamp Ping	-PP
ICMP Address Mask Ping	-PM
Don't Ping	-PD, -PN, -PD
Require Reverse	-R
Disable Reverse DNS	-n
Specify DNS Servers	--dns-servers

## REAL-TIME INFORMATION OPTIONS

Verbose Mode	--verbose, -v
Version Trace	--version-trace
Packet Trace	--packet-trace
Debug Mode	--debug, -d
Interactive Mode	--interactive
Noninteractive Mode	--noninteractive

## OPERATING SYSTEM FINGERPRINTING

OS Fingerprinting	-O
Limit System Scanning	--osscan-limit
More Guessing Flexibility	--osscan-guess, --fuzzy
Additional, Advanced, and Aggressive	-A

## VERSION DETECTION

Version Scan	-sV
Don't Exclude Any Ports	--allports
Set Version Intensity	--version-intensity
Enable Version Scanning Light	--version-light
Enable Version Scan All	--version-all

## RUN-TIME INTERACTIONS

Display Run-Time Help	?
Increase / Decrease Verbosity	v / V
Increase / Decrease Debugging	d / D
Increase / Decrease Packet Tracing	p / P
Any Other Key	Print Status

## LOGGING OPTIONS

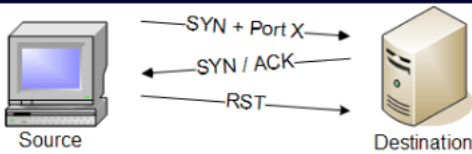
Normal Format	-oN <logfilename>
XML Format	-oX <logfilename>
Grepable Format	-oG <logfilename>
All Formats	-oA <basefilename>
Script Kiddie Format	-oS <logfilename>
Resume Scan	--resume <logfilename>
Append Output	--append-output

## MISCELLANEOUS OPTIONS

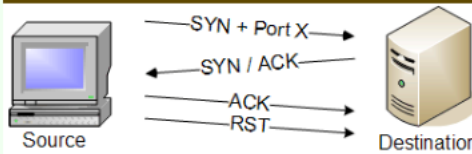
Quick Reference Screen	--help, -h
Nmap Version	--version, -V
Data Directory	--datadir <directory_name>
Quash Argument Vector	-q
Define Custom Scan Flags	--scanflags <flagval>
(Uriel) Maimon Scan	-sM
IPv6 Support	-6
Send Bad TCP or UDP Checksum	--badsum

## Identifying Open Ports with Nmap

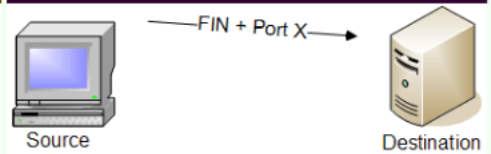
### TCP SYN SCAN (-ss)



### TCP connect() SCAN (-sT)



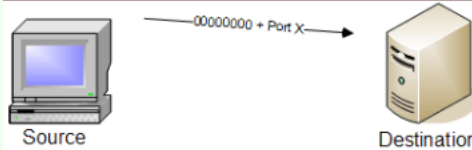
### TCP FIN SCAN (-sF)



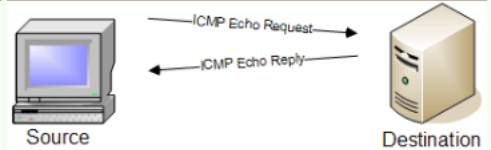
### TCP XMAS TREE SCAN (-sX)



### TCP NULL SCAN (-sN)

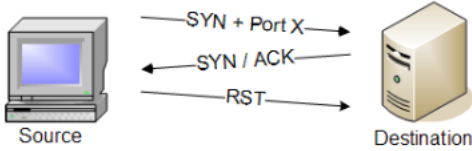


### TCP PING SCAN (-sP)

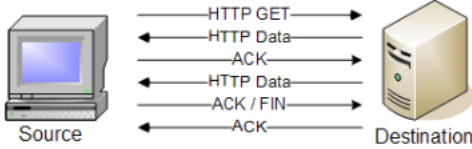


### VERSION DETECTION SCAN (-sV)

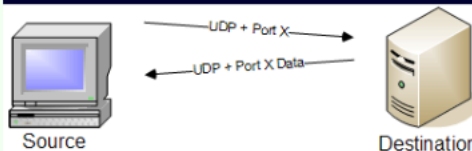
Version scan identifies open ports with a TCP SYN scan...



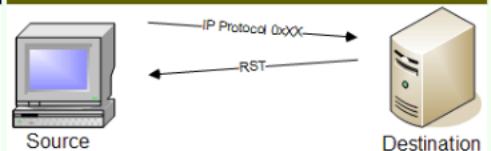
...and then queries the port with a customized signature.



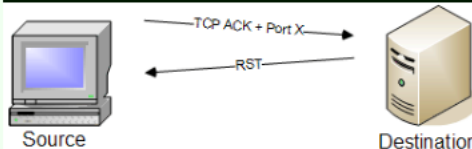
### UDP SCAN (-sU)



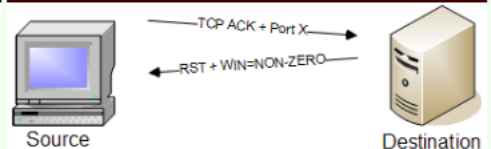
### IP PROTOCOL SCAN (-sO)



### TCP ACK SCAN (-sA)

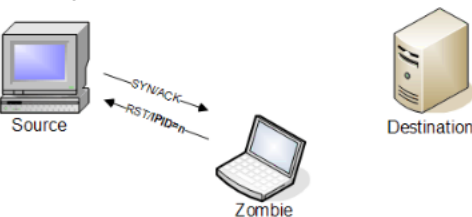


### TCP WINDOW SCAN (-sW)

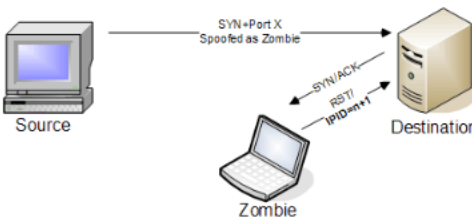


### IDLESCAN (-sI <zombie host:[probeport]>)

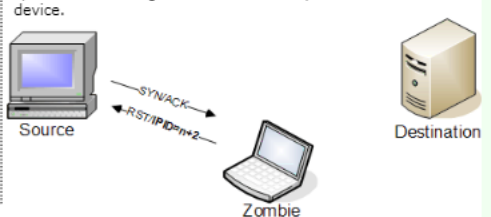
Step 1: Nmap sends a SYN/ACK to the zombie workstation to induce a RST in return. This RST frame contains the initial IPID that nmap will remember for later.



Step 2: Nmap sends a SYN frame to the destination address, but nmap spoofs the IP address to make it seem as if the SYN frame was sent from the zombie workstation.

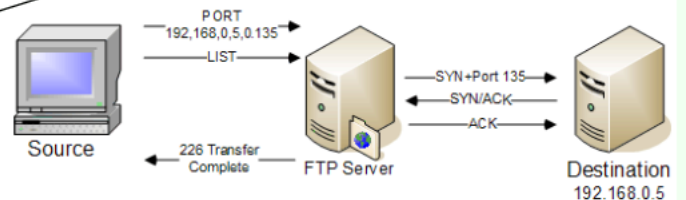
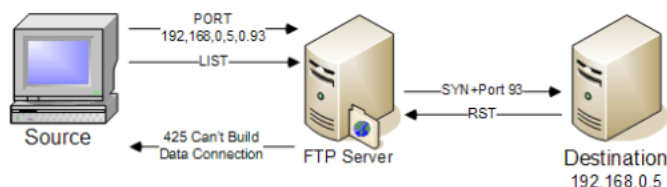


Step 3: Nmap repeats the original SYN/ACK probe of the zombie station. If the IPID has incremented, then the port that was spoofed in the original SYN frame is open on the destination device.



### FTP BOUNCE ATTACK (-b <ftp\_relay\_host>)

A closed port will result with the FTP server informing the source station that the FTP server can't build the connection.



An open port completes the transfer over the specified connection.