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000000 000000 00 0000 000000 000000 000000 00000000000000 000000 000000 0000 :TCP Full Connect scan 00 00000000000000 00000000 000000 00 0 000000 00000000 00 000000 00000000 00 000000 00000000 000000000000 0000 0000 00 .00000000 0000 00 00000000 000000 0000 00 000000 000000 0 0000 0000000000 000000 000000 0000 0000 000000000000 00000000 .00000000 000000 000000000000000000 00 SYN / ACK 0000000000 00 0000 000000000000 .00000000 000000 000000000000 00 RST / ACK 0000000000

00 TCP 0000000000 00 000000 00000000 00 000000 00000000 00000000 00000000 0000 000000 000000 0000 0000 :TCP SYN scan

... (IDS) ... SYN / ACK ... RST / ACK

TCP FIN scan ... RST/ACK ... RFC 793

TCP NULL scan ... RFC 793 ... RST

TCP ACK scan ... ICMP ... RST

TCP XMAS scan ... PSH ... FIN ... URG ... RST ... RFC 793

... CEH ... Nmap

TCP/IP RFCs ... Full Connect ... SYN

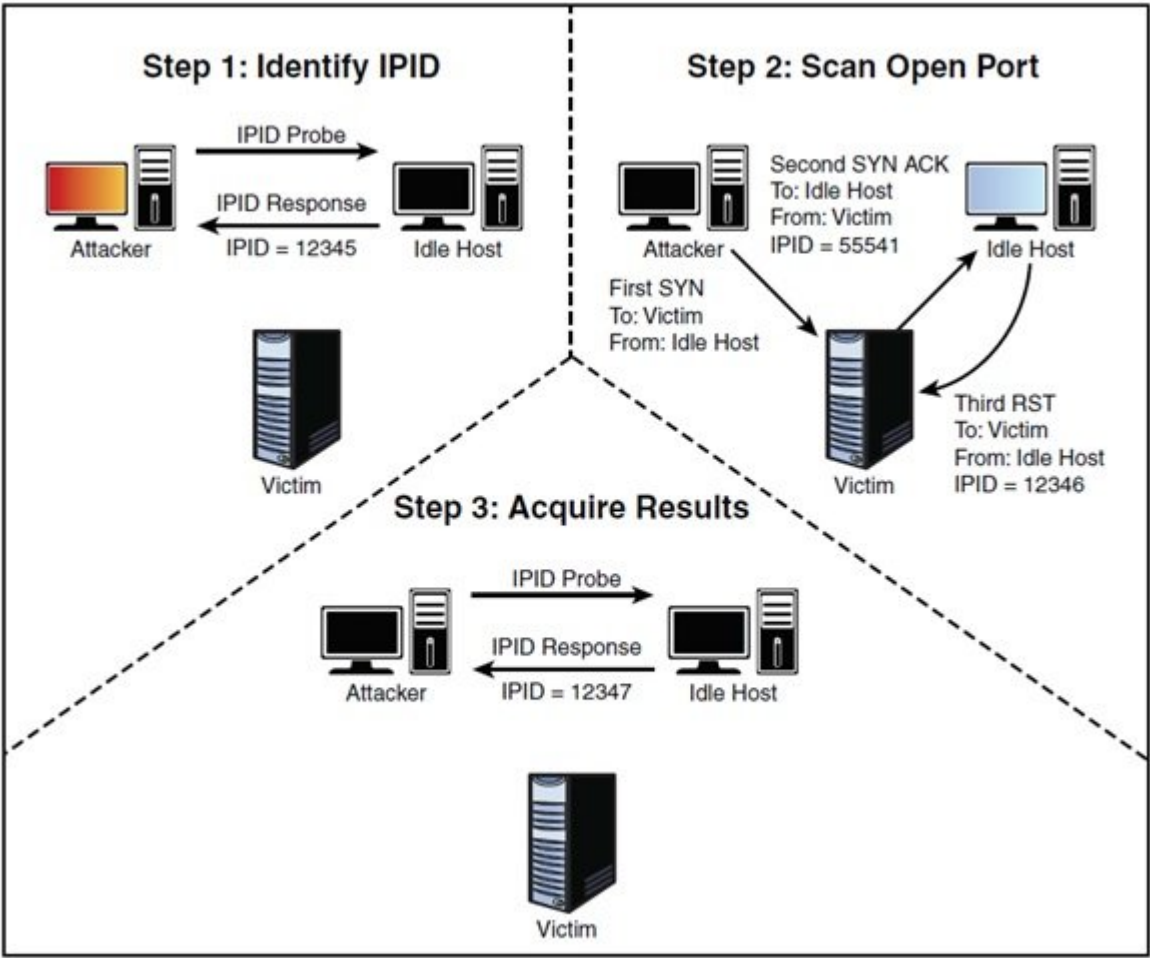
... (Idle) ... TCP / IP ... IPID

TCP ... SYN ... RST ... SYN / ACK ... RST

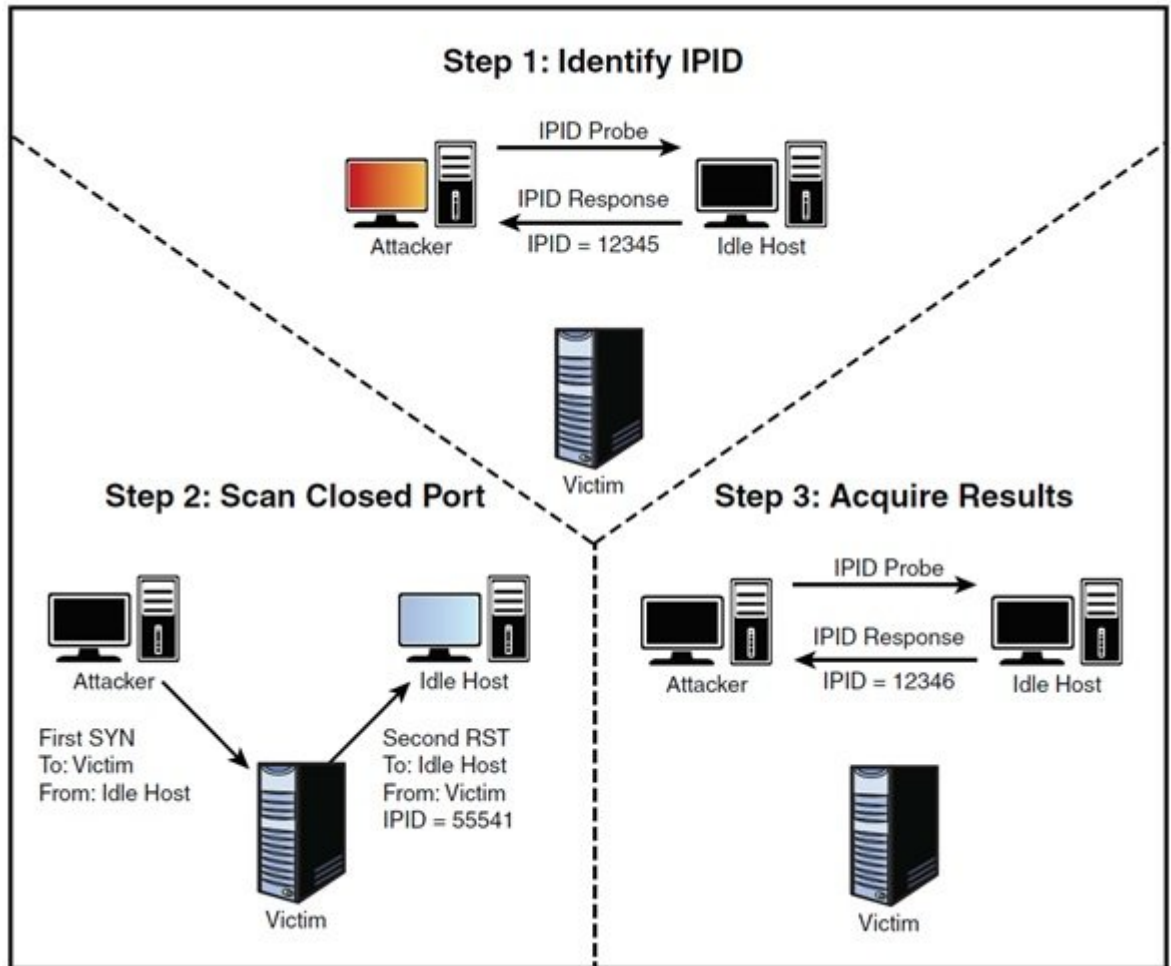
... RST

IPID sequence numbers are used to identify open ports. The attacker sends a SYN packet to the victim with a spoofed source IP address. The victim responds with a SYN-ACK packet to the spoofed IP address. The attacker then sends a RST packet to the victim with a spoofed source IP address, causing the victim to reset the connection.

The attacker then sends a second SYN packet to the victim with a different spoofed source IP address. The victim responds with a SYN-ACK packet to the spoofed IP address. The attacker then sends a RST packet to the victim with a spoofed source IP address, causing the victim to reset the connection. This process is repeated until the attacker has identified all open ports on the victim.



The diagram shows the sequence of events. In Step 1, the attacker sends an IPID probe to the idle host, which responds with its current IPID (12345). In Step 2, the attacker sends a SYN packet to the victim. The victim responds with a SYN-ACK packet to the idle host, using its next IPID (55541). The attacker then sends a RST packet to the victim, spoofing the source IP as the idle host's IP (12346). In Step 3, the attacker sends another IPID probe to the idle host, which responds with its next IPID (12347). This process allows the attacker to determine the sequence of IPIDs used by the victim, which can be used to identify open ports.



IPID scan is a type of port scan that identifies the IP ID sequence number of a host. The attacker sends a SYN packet to a target host. If the host is idle, it will respond with a SYN-ACK packet. The attacker then sends a second SYN packet with a different source IP address. If the host is idle, it will respond with a RST packet. The IP ID sequence number is the value of the IP ID field in the RST packet. This value is used to identify the host's IP ID sequence number. The IP ID sequence number is a 16-bit field in the IP header. It is used to identify the source of the packet. The IP ID sequence number is incremented by 1 for each packet sent from the host. The IP ID sequence number is used to identify the host's IP ID sequence number. The IP ID sequence number is used to identify the host's IP ID sequence number. The IP ID sequence number is used to identify the host's IP ID sequence number.

13. ACK scan: This scan is used to determine if a port is open or closed. The attacker sends a packet with the ACK flag set to 1. If the port is open, the host will respond with a RST packet. If the port is closed, the host will not respond. This scan is used to identify the host's IP ID sequence number.

FTP Bounce scan: This scan is used to identify the host's IP ID sequence number. The attacker sends a packet to the host's FTP port. The host then forwards the packet to the target host. The target host's response is then sent back to the attacker. This scan is used to identify the host's IP ID sequence number.

RPC scan: This scan is used to identify the host's IP ID sequence number. The attacker sends a packet to the host's RPC port. The host then responds with a RST packet. This scan is used to identify the host's IP ID sequence number.

Window scan: This scan is used to identify the host's IP ID sequence number. The attacker sends a packet with the ACK flag set to 1. The host then responds with a RST packet. The RST packet contains the TCP window size. The attacker then sends a packet with a different source IP address. The host then responds with a RST packet. The RST packet contains the TCP window size. The attacker then compares the two RST packets to identify the host's IP ID sequence number.

TCP scan: This scan is used to identify the host's IP ID sequence number. The attacker sends a packet to the host's TCP port. The host then responds with a RST packet. This scan is used to identify the host's IP ID sequence number.

-sR/I RPC/Identd scan (use with other scan types)

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<https://nmap.org/book/man.html>

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