

- Filename: eccouncil-ceh31250-v11-3-8-1-nmap-inverse-tcp-xmas-and-maimon-scans.md
 - Show Name: CEHV11 (312-50)
 - Topic Name: Recon Techniques - Scanning
 - Episode Name: Nmap: Inverse TCP and XMAS Scans
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Nmap: Inverse TCP, XMAS, and Maimon Scans

Objectives:

- Use nmap to perform an Inverse TCP scan to enumerate port states and service details
 - Use nmap to perform an XMAS scan to enumerate port states and service details
 - Explain the pros and cons when utilizing these types of scans
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- What is the concept behind an Inverse TCP scan? How does this work, theoretically?
 - 'Hacking' TCP
 - Firewalls/IPS can block SYN packets
 - How could we get around this?
 - Probe with other flags
 - FIN
 - URG
 - PSH
 - NULL
 - OPEN ports don't respond to FIN, URG, PSH, or NULL
 - CLOSED ports respond with RST
 - How do we perform these types of scans?
 - -sF (FIN)
 - -sN (NULL)
 - --scanflags URGACKPSHRSTSYNFIN
 - SYN/ACK probe
 - How about this 'Christmas' scan thing?
 - Scans using the FINURGPSH flags
 - You could also accomplish this with
 - --scanflags URGPSHFIN
 - As if 'Christmas' scans weren't fun enough, we also need to be aware of 'Maimon' scans?
 - Basically the same trick, but with different flags
 - FIN/ACK probe
 - -sM
 - --scanflags ACKFIN
 - Are there any issues with using these scans that we should take in to consideration?
 - Only works with BSD-Compliant Network Stacks

- Adherence to RFC 793
 - Windows and Linux will scoff