- Filename: eccouncil-ceh31250-v11-3-12-1-nmap-sctp-init-and-cookie-echo-scans.md
- Show Name: CEHv11 (312-50)
- Topic Name: Recon Techniques Scanning

Nmap: SCTP INIT and COOKIE ECHO Scans

Objectives:

- Describe the process of an SCTP INIT and COOKIE ECHO scans
- Use nmap to perform an SCTP INIT and COOKIE ECHO scans to enumerate port states and service detail
- Explain the pros and cons when utilizing these types of scans

NOTES for DANIEL

Can run an SCTP server with NCAT using --sctp switch Capture SCTP traffic with Wireshark for demo

- Kathy
 - How SCTP works (4-way handshake)
 - Host1 >---- NIT----> Host2
 - Host1 <--INIT-ACK---< Host2
 - Host1 >-COOKIE-ECHO-> Host2
 - Host1 <-COOKIE-ACK--< Host2
- . Now that we have the basics down, tell us about the INIT scan.
 - o −sY option
 - Attacker >----INIT-Chunk----> Target
 - Attacker <--INIT+ACK-Chunk--< Target
 - Port is **OPEN**
 - Attacker >----INIT-Chunk----> Target
 - Attacker <---ABORT-Chunk----< Target
 - Port is **CLOSED**
 - Port is **FILTERED** if
 - No response
 - ICMP Unreachable
- COOKIE ECHO scan
 - o −s∑ option
 - "Stealthy"
 - Some non-stateful firewalls can't block
 - Advanced IDS/IPS can detect
 - Sends COOKIE ECHO Chunk to target
 - Target doesn't respond
 - Port is **OPEN**
 - Target responds with ABORT Chunk
 - Port is **CLOSED**