- Filename: eccouncil-ceh31250-v11-3-4-1-host-discovery.md
- Show Name: CEHv11 (312-50)
- Topic Name: Recon Techniques - Scanning
- Episode Name: Host Discovery

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Host Discovery

Objectives:

- Define host discovery and explain its function
- List host discovery techniques
- Describe the advantages and application of host discovery using ICMP, ARP, and UDP Ping scans
- Utilize common host discovery tools like nmap and Angry IP Scanner
- Identify and recall common security controls used to protect organizations against ping sweep scans

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- What is 'host discovery' and what is its function?
- What are the common host discovery types/techniques?
    - ICMP ECHO
    - ARP
    - UDP
- Can you show us some common tools for performing host discovery?
    - Ping
    - Angry IP Scanner
    - nmap
- Any other techniques we should be aware of?
    - ICMP Timestamp and Address Mask
        - Timestamp (`-PP`)
        - Address Mask (`-PM`)
    - SYN Ping (`-PS`)
    - ACK Ping (`-PA`)
    - Protocol Ping (`-PO`)
- Are there any security controls we can employ to protect us?
    - Firewall
    - IDS/IPS
    - Rate-limit hosts running more than X-number of ICMP ECHO requests
    - ACLs
    - DMZs