- Filename: eccouncil-ceh31250-v11-4-5-1-ntp-enumeration.md
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- Topic Name: Recon Techniques Enumeration
- Episode Name: NTP Enumeration

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## **NTP Enumeration**

## **Objectives:**

- Explain the function of the NTP service
- Describe the common attributes of the NTP service
- Employ NTP commands and tools to reveal NTP service versioning, hostname, and IP address
- What does NTP do for us?
  - o Sync time/date settings
    - Why is this important?
      - Many network services utilize time as a metric for admin/security
- What are some of the attributes of NTP that we need to be aware of?
  - o UDP port 123
    - sudo nmap -sU -n -Pn -p 123 target IP
  - o Maintain time within 10ms
  - o Can achieve time accuracy of 200 micro seconds
- Enough of the pleasantries, how do we enumerate NTP?
- shodan search for NTP for good target(s)
  - ntpdate
    - -d (debug info)
  - ntptrace
    - Trace NTP servers to source
      - Could help map out network resources
  - o ntpdq & ntpdc
    - host target\_IP
    - version
    - peers