- Filename: eccouncil-ceh31250-v12-4-5-1-ntp-enumeration.md
- Show Name: CEHv12 (312-50)
- Topic Name: Recon Techniques Enumeration
- Episode Name: NTP Enumeration

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?
 - 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?
 - UDP port 123
 - sudo nmap -sU -n -Pn -p 123 target IP
 - Maintain time within 10ms
 - · 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
 - ntpq
- host target_IP
- lacktrianspace version
- peers