Time Distribution Using Network Time Protocol(NTP)

- NTP uses UDP.
- NTP is a complex time machinery to compensate network conditions to accurately set time based on remote reference servers.
- NTP experts were consulted, and they are pretty sure that NTP would work with looong delays, except that the notorious precision (< 10ms) will not be as good. Ok!
- Let's put it to test!
  - ntpd on server, serving its own time
  - ntpdate on client
  - Delay of 2h each way = 4h RTT
  - Set artificially the client system date to a very bad value outside of the RTT. Aka 10 hours behind. (pretty bad clock drift!)
  - sudo ntpdate -t 14500 $remoteServerIPaddress
  - Worked. Accuracy was ~30 seconds
  - Do it second time: sudo ntpdate …
  - Worked. Accuracy was ~2 seconds
- More investigation TBD

Time Distribution: probably ✅