

What is CTF?

CTF is an infrastructure Protection solution providing the first truly secure time service for all servers and endpoints in a computing environment, and can be deployed either as an on-site solution or Cyemptive remote service. We implement Network Time Protocol (NTP) in our trusted Defense-in-Depth (D-i-D) blueprint using our patented CyberSlice® technology and sensors to enable a completely secure mechanism keeping compute systems secured with extremely accurate time synchronization.

The Problem

Network Time Security (NTS) and other standards have been introduced to secure the communication from dedicated stratum time servers to an organization's internal time server. Man-In-The-Middle (MITM) attacks and Gateway Hijacking have become prevalent in many core networks. These allow attacks to change the delay / time when requested by an organization's time server. When an organization is targeted for data of value, NTP becomes a service of opportunity for bad actors. **With the frequency of MITM attacks, can you be sure your systems have accurate time?**

Infrastructure Protection with CTF

CTF - Time synchronization is vitally important to keep certificate timing, authentication tokens, Active Directory (AD) / Lightweight Active Directory Protocol (LDAP), log, and Cyemptive sensor files in sync for normal operations. It also provides administrators the ability to coordinate user and bad actor events against log entries and system events. This capability is required and in use by all computing environments, and keeping secure, accurate time is a must for any basic troubleshooting allowing Cyemptive's unique ability to record our sensor data for tracing bad actors and malicious bots.

CTF (On-Premises) – Cyemptive provides a complete solution with Stratum 0 to Stratum 3 servers built on top of our patented CyberSlice® technology in a Defense-in-Depth, layered model for high security and accuracy of time synchronization any organization can rely on.

CTF (Cyemptive Remote Service) – Cyemptive maintains and manages the on-premises solution behind multiple layers of Cyemptive Perimeter Fortress (CPF) firewalls and Defense-in-Depth at our Security Operations Center (SOC).

BEST SECURED
DATA

PERFORMANCE
GUARANTEES

INFRASTRUCTURE
PROTECTION

THE CYEMPTIVE DIFFERENCE

- **Cyemptive** has developed **unique, patented technologies, CyberSlice®**, **Zero Trust Blueprints (ZTBs)**, and solutions to detect and pre-emptively stop attackers before they can infiltrate networks achieving new cyber-standards unlike any seen.
- **Cyemptive's** proven methods are the only ones fully capable of protecting the **Network Time Protocol (NTP)** end-to-end from even the most sophisticated MITM attacks.
- **Cyemptive's** secure NTP Infrastructure Protection, on-premises or via SOC services provides peace of mind for all system time based operations.

CTF RANGE OF SOLUTIONS

- CTF On-Premise — Datacenter, Defense-in-Depth, high availability
- CTF Remote Service — datacenter, remote workforce, no floor space required