Is it possible to use synchronized clocks instead of lamport clocks for tracking the relation happened-before defined by Lamport?

Yes, we can use synchronized clocks instead of lamport clocks for timestamps.

No, we cannot use synchronized clocks because a -> b =/> Ts(a) < Ts(b)

No, we cannot use synchronized clocks because Ts(a) < Ts(b) =/> a -> b

Root cause of the CAP (Consistency, availability and partition tolerance)

theorem

1 the inability of detecting fault process

2 inter-process communication in a distributed system is message bound

2 e 1

Non blocking primary backup may lead to a violation of sequential consistency. (V/F e justificar)

The use of TCP facilitates the development of stored multimedia streaming applications, even if it may add delay and jitter. (T/F)

In Synod algorithm, an acceptor ignores an accept request if it’s late, e.g if it is received after a timeout. (T/F)

Pure event based service designs may scale better than pure multi threaded based designs on a “uni-processor” platform. (T/F)

Whenever we use HTTP cookies, how do you classify the protocol and the server?

Both protocol and server are stateful

The protocol is stateful and the server is stateless

The protocol is stateless and the server is stateful

Both protocol and server are stateless

On the web, a public key certificate never requires another public key certificate for validation purposes (V/F)

What are cryptographic hash functions not used for?

Integrity

Authenticity

Confidentiality

None

In Chord, the finger table of a node has more entries on nodes closer to it (in the ring) than entries on nodes farther away (T/F).

In view synchronous multicast, all processes that move from one view to the next deliver the same set of messages in the first view (T/F)