Rings 101 - What is Distributed Network

Rings Dev

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What is Distributed Network

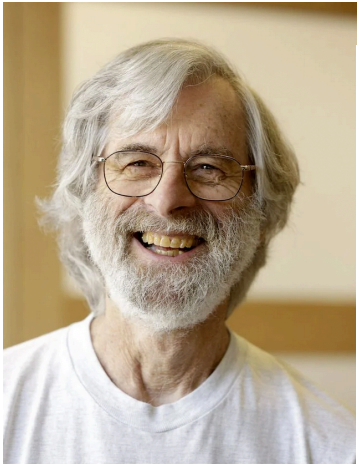
- Definition: What is distributed system (1min)
- Definition: What is a distributed Network (1min)
- Is internet distributed? (1min)
- Intoduce to dWeb (1min)
- Implementation of dWeb (1min)

Definition: What is distributed system

A system is distributed if the message transmission delay is not negligible compared to the time between events in a single process. [3]

— Leslie Lamport, 1978

Leslie Lamport at 1978



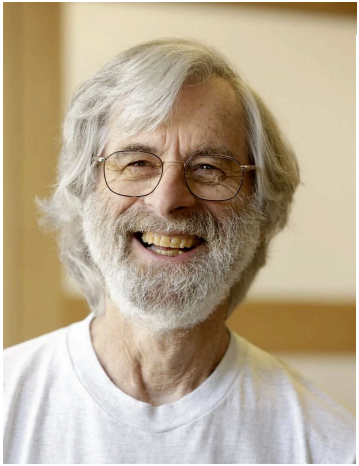
Operating Systems

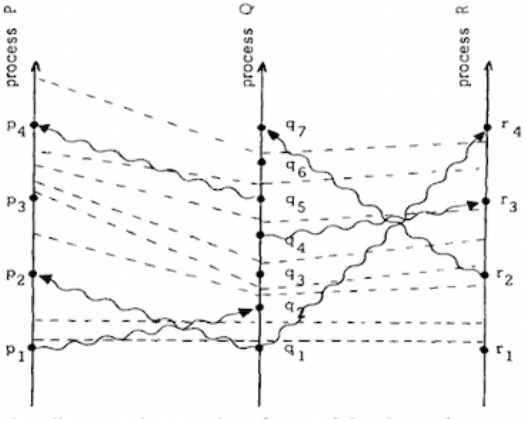
R. Stockton Gaines Editor

Time, Clocks, and the Ordering of Events in a Distributed System

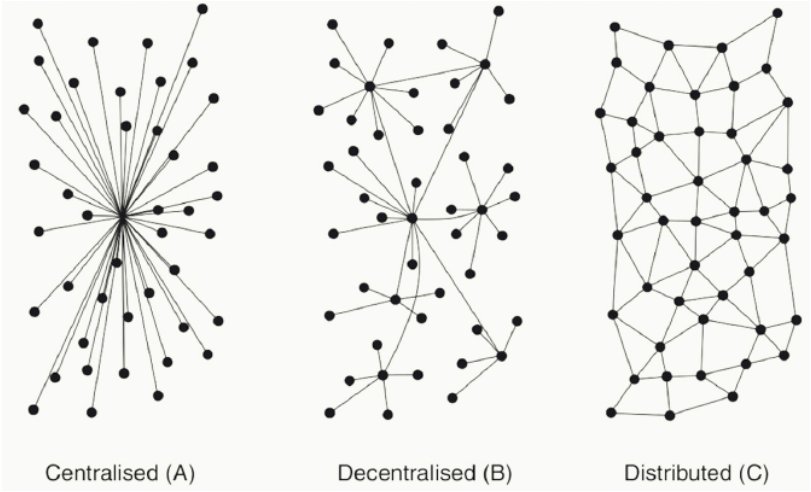
Leslie Lamport
Massachusetts Computer Associates, Inc.

Logical Timestamp





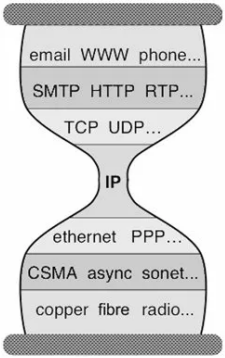
Definition: What is distributed network



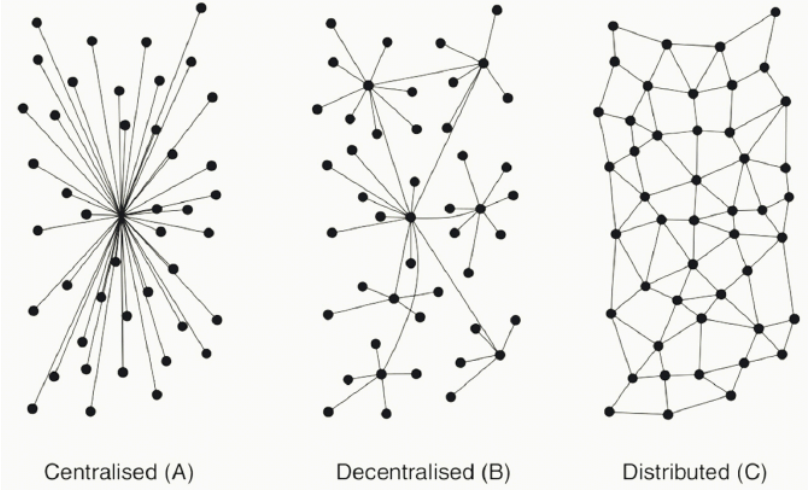
Is Internet distributed?

The system is failing.[2]

— Tim Berners-Lee, 2017



Intoducing to the dWeb



[1]

Implementation of dWeb

- Tor Project - Onion Relay, Hidden services
- GUNnet - DHT Based, structure p2p
- Rings Network - DHT and WASM, structure p2p

Thanks

Repository of this Slides:

Reference

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The system is failing, 2017.
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Communications of the ACM, 21(7):558–565, 1978.