Rings 101 - What is Distributed Network



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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)

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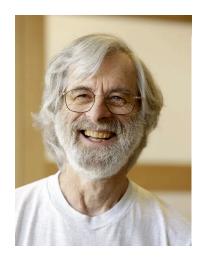
Definition: What is distributed system

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

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Leslie Lamport at 1978



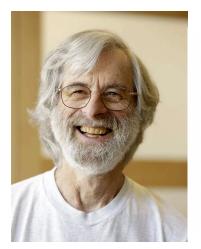
Operating Systems R. Stockton Gaines Editor

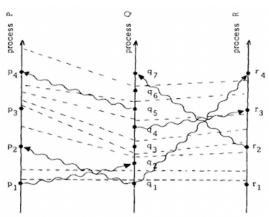
Time, Clocks, and the Ordering of Events in a Distributed System

Leslie Lamport Massachusetts Computer Associates, Inc.

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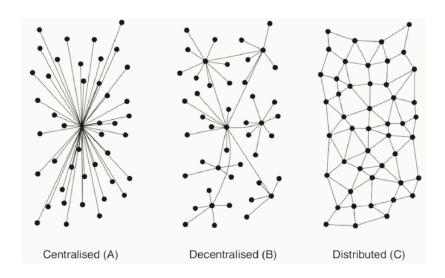
Logical Timestamp





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Definition: What is distributed network

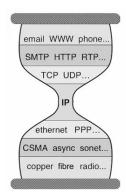


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Is Internet distributed?

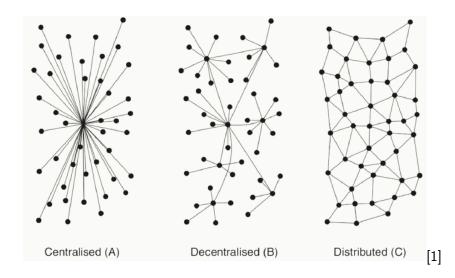
The system is failing.[2]

— Tim Berners-Lee, 2017



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Intoducing to the dWeb



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Implementation of dWeb

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

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Thanks

Repository of this Slides:



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Reference



Dietrich Ayala.

Introducing the dweb, 2018.

[Online; accessed on 13-July-2023].



Tim Berners-Lee.

The system is failing, 2017.

[Online; accessed on 13-July-2023].



Leslie Lamport.

Time, clocks, and the ordering of events in a distributed system.

Communications of the ACM, 21(7):558-565, 1978.

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