

Campaign for Re- Decentralization

Jon Crowcroft 13/6/24



Two sided market + AI made the Cloud unsustainable, almost as bad as bitcoin

- We need a sustainable, survivable alternative.
- Re-decentralization to the rescue
- IP was decentralized – ISPs are federated, the web had no “top”
- What would it take to make a decentralized digital world acceptable
 - Scale (10B users)
 - Availability (10 9s)
 - Accountability (but with anonymity if desired)

Why is central system broken

- While you get economies of scale from data center,
- You also get infinite temptation to use all the center data.
 - Marketting/recommends/Adverts etc etc etc
 - Building models of everyone and everything
 - Surveillance capitalism etc etc

Monoculture/Oligopoly

- Is a very high risk – we basically have a gene pool size of 1
- A single really bad zero day takes down the whole digital world
 - As well as breaching all the data, potentially
 - Ransomewareing the planet

Open Decentralised system

- Brings its own resources per person
- So business model scales naturally without need for exploit
- But does need scalable organization for:
- Discovery (distributed search-Espresso!) and routing
 - Could be gossip, epidemic, bubble wrap 😊
- Replication and consistency
 - New dynamic leaderless consensus schemes
 - Deal with asymmetric link capacity/node failures
- Decentralised identity and accountability
 - Something like sovryn, but perhaps with CA transparency

The Feds are Coming

But how can we tell if
they are

Re-Decentralised?

