

Centralized and decentralized service

Defining the architecture

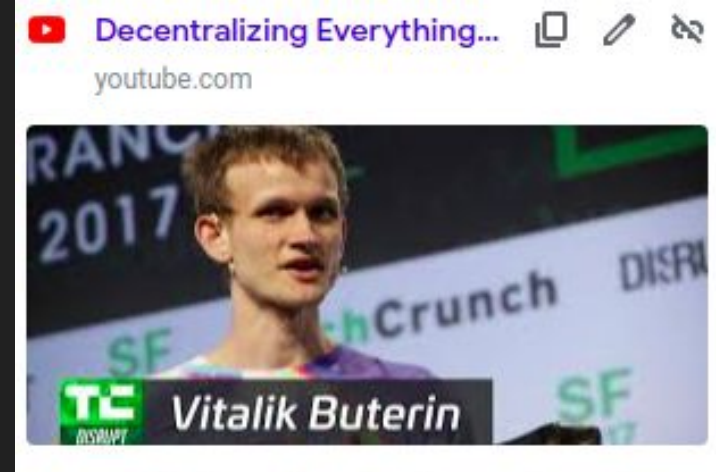
[Decentralizing Everything with Ethereum's Vitalik Buterin | Disrupt SF 2017](#)

Discussion the video

When we use a decentralized approach?

Will blockchain replace centralized cloud computing?

What kind of solution give decentralized computing?



Centralized cloud computing

Gives us

1. Intensive and serial computation -> hard to paralyze
2. Computation on private data.

Private data. Sensitive information.

How we keep all the user data safe?

How we manage sensitive information?

Do we need a centralized hosting service to store and execute private data?

As we know, the smart contracts are open source. Do we need to use cryptography to store or do the computation?

Does blockchain work as a database?

Why a blockchain?

Blockchain are great at resolving disputes: If i have 100 ETH and i send you 100 ETH and then you claim I've never send you the money, then we have a dispute and the blockchain is the guarantee of security.

A good blockchain application is an application that

1. Needs decentralization
2. Needs to share memory

Smart contracts

Are computer programs that directly controls digital assets.

A smart contract can hold money and decide what to do with the money.