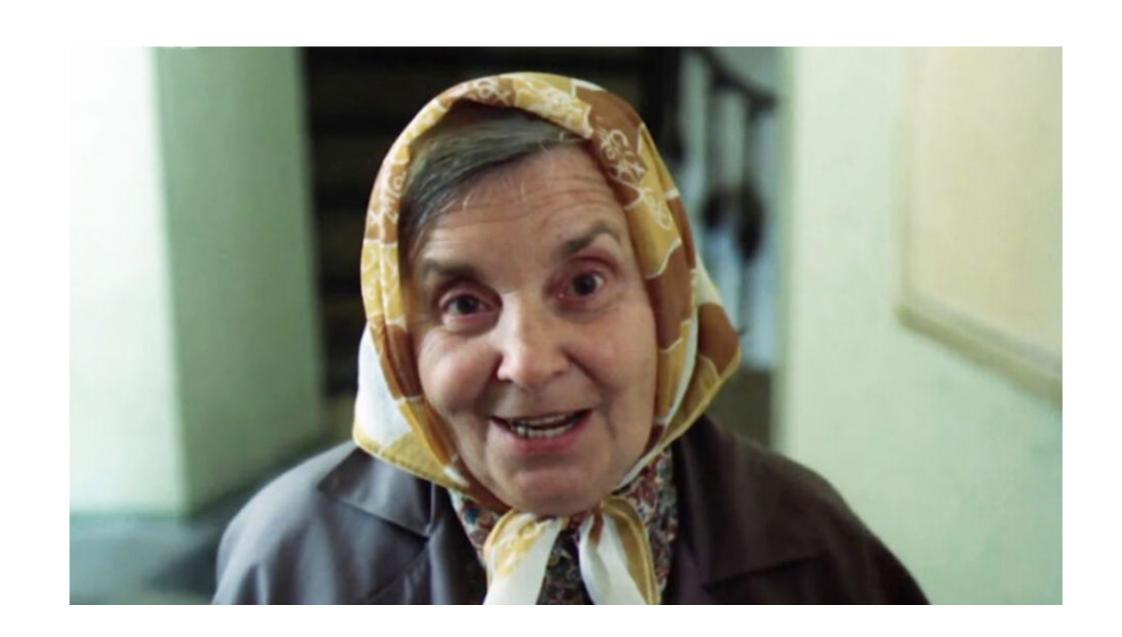
Distributed serverless architecture

JOpenSpace 2024, Telč 4.-6.10.



Got server? May I see it?



Client - Server

Server

Serverless

"There is no cloud. It's just someone else's computer"

Go with the big boys

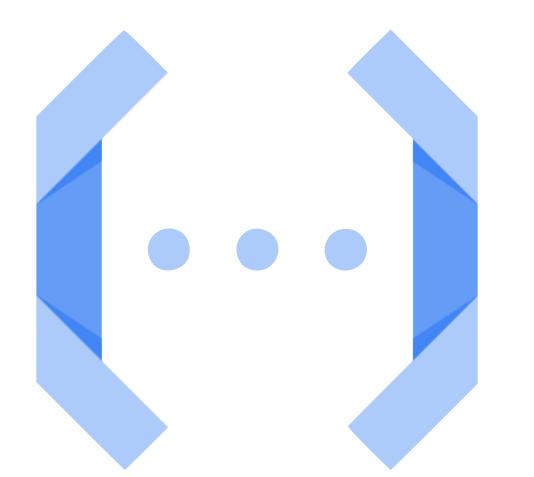
AWSLambda

https://aws.amazon.com/pm/lambda



Gogle Cloud Functions

https://cloud.google.com/functions



Azure Functions

https://azure.microsoft.com/cs-cz/products/functions/



Distributed

- Scalability
- Resiliency
- Cost sustainability
- Verifiability

Open source solutions

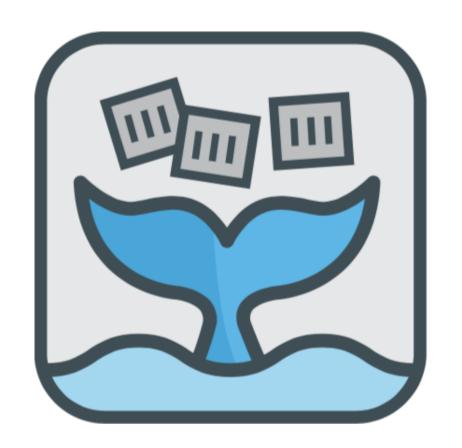
OpenWhisk

https://openwhisk.apache.org



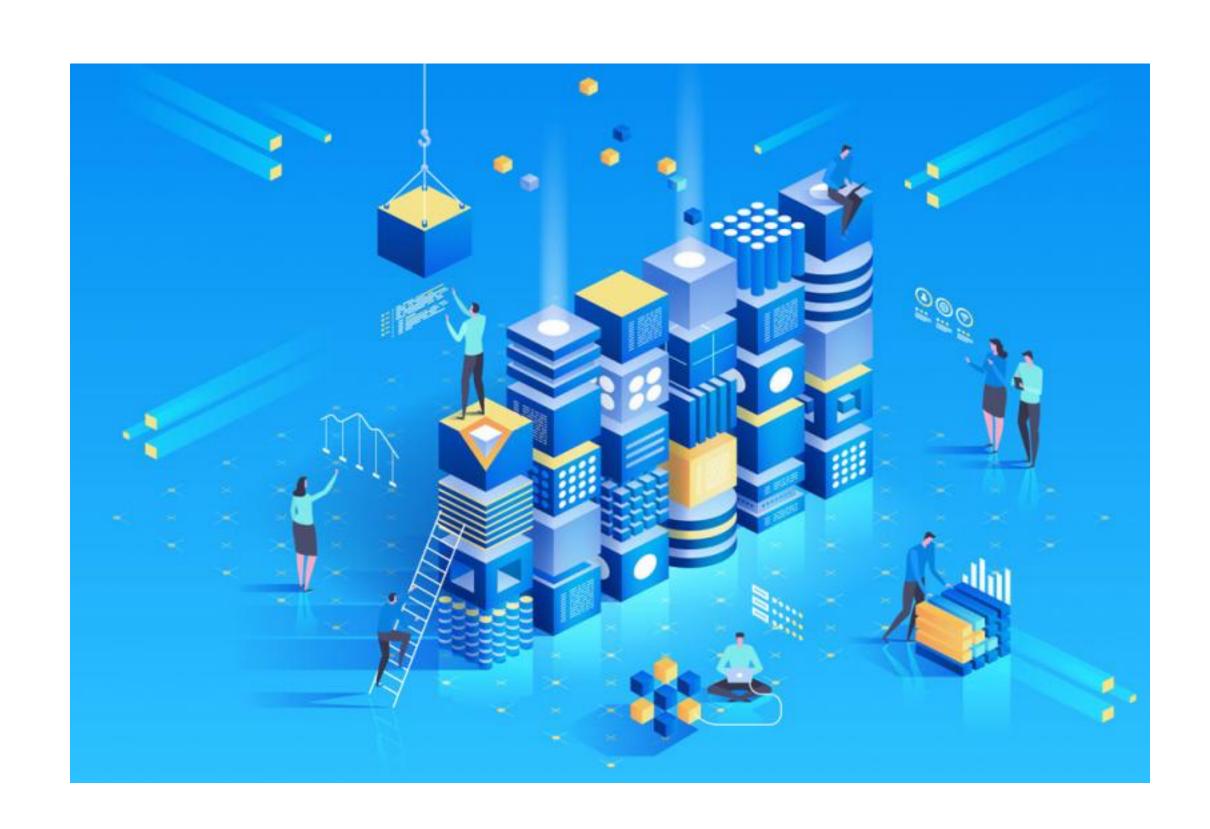
OpenFaaS

https://www.openfaas.com/



Build your own computer cluster

Inspiration



Interplanetary File

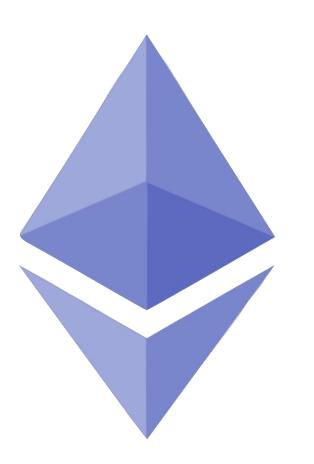
System Sy



Server 2.0 JOpenSpace 2016

Ethereum SmartContracts

https://ethereum.org

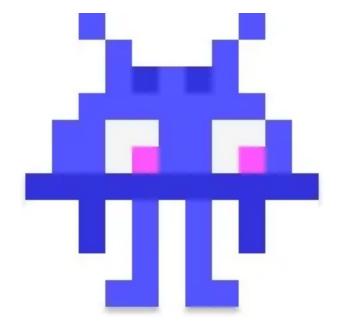


Smart contracts / Solidity Quite limited

HTTP bridge over JSON-RPC API

RADIOLE

https://radicle.xyz

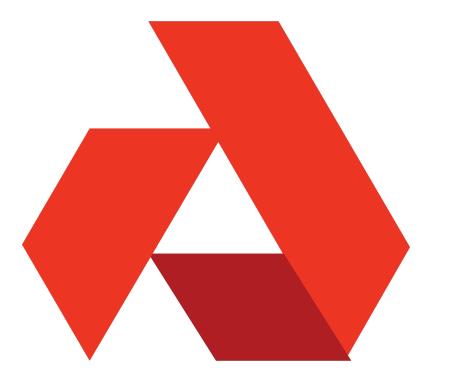


Radicle is a peer-to-peer code collaboration platform ("forge") built on Git. Unlike centralized platforms like GitHub, there is no single entity controlling the network or user data. Repositories are replicated across peers in a decentralized manner. Radicle is an alternative for people and organizations who want full control of their data and user experience, without compromising on the social aspects of collaboration platforms.

Driven by seeding (Like BitTorrent)

Alash

https://akash.network/



The World's Premier Decentralized Compute Marketplace ("AirBnB for Datacenters")

Based on Kubernetes

Internet Computer (DFinity) https://dfinity.org

WebAssembly "canisters" with HTTP bridge

HTTP Gateway with API in Candid specification language

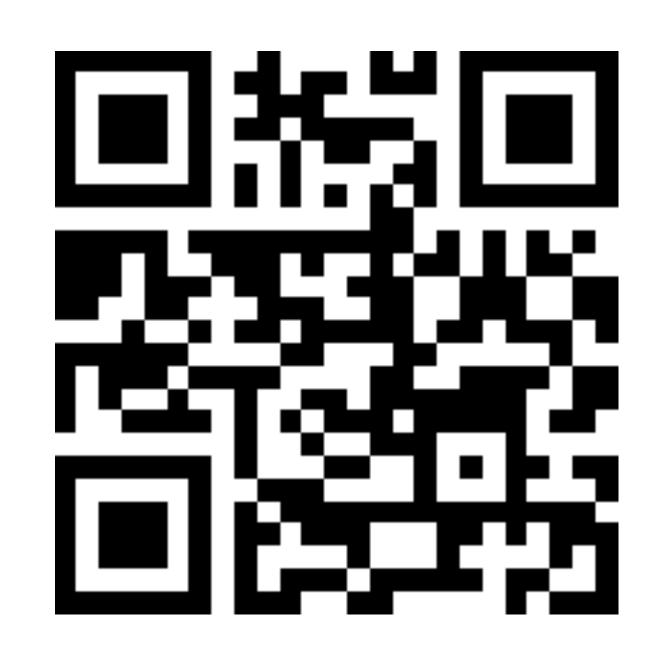
2 MB size limit for request / response Streaming option since 9/2024

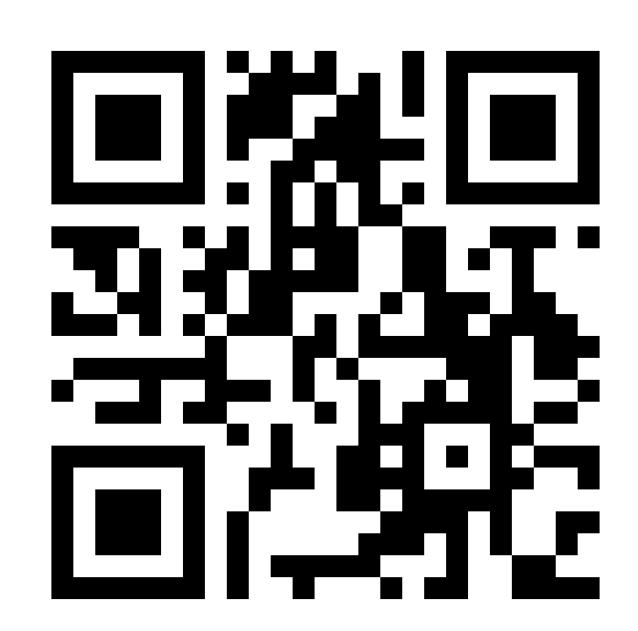
Demo: Open chat

https://oc.app/communities

ReverseA

Thank You













HTTPS://GITHUB.COM/ACTIWERKS