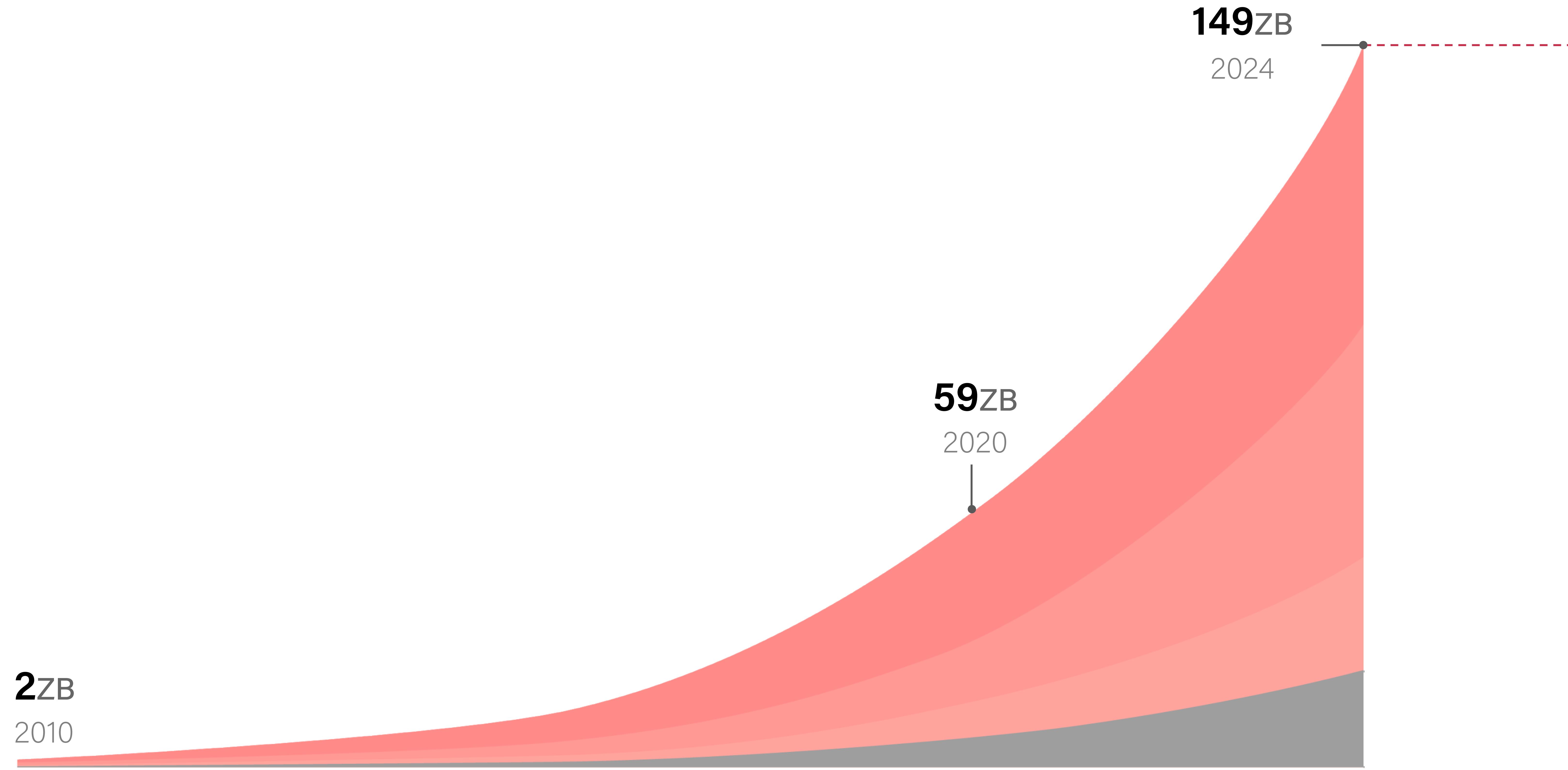
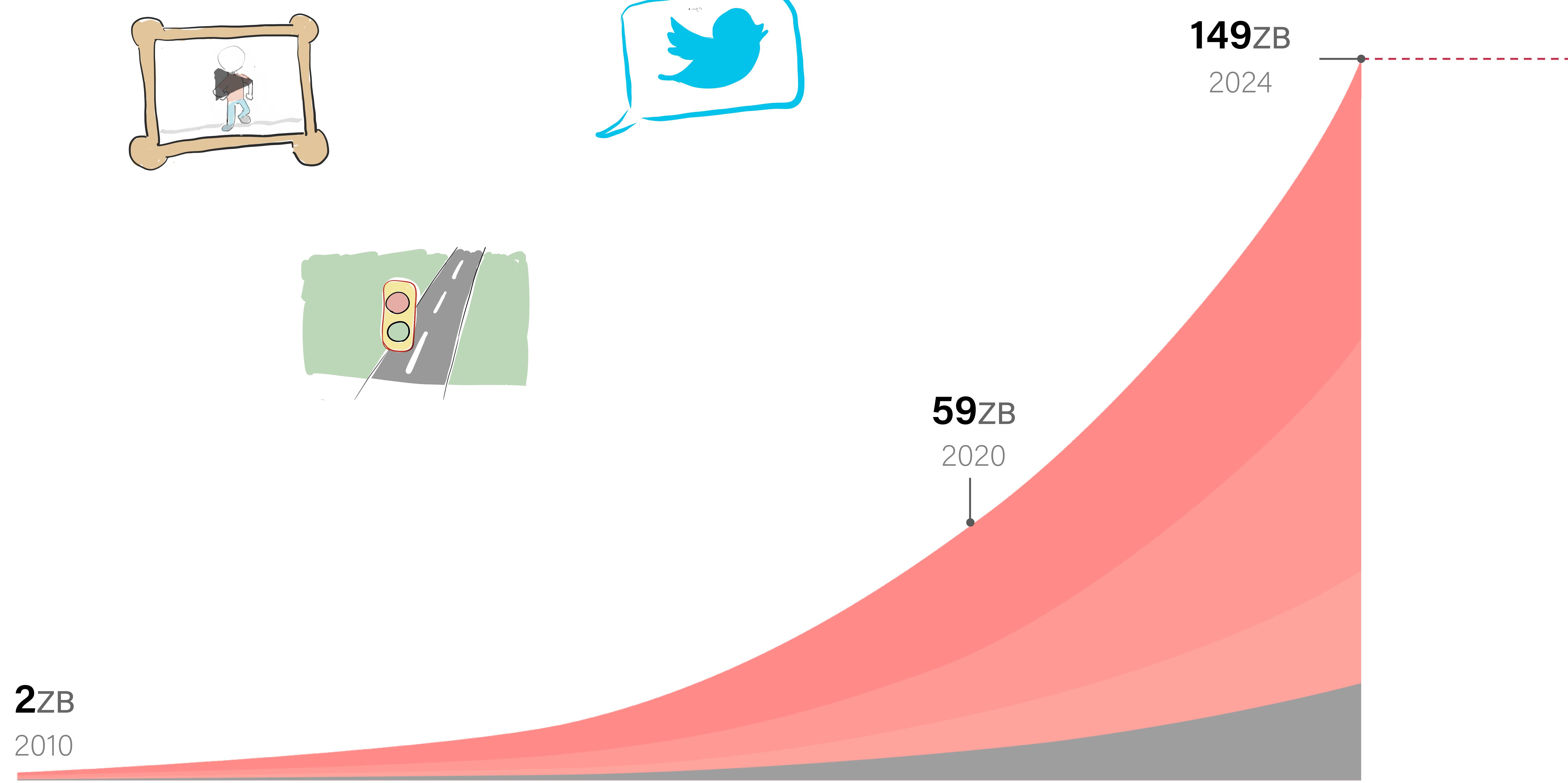
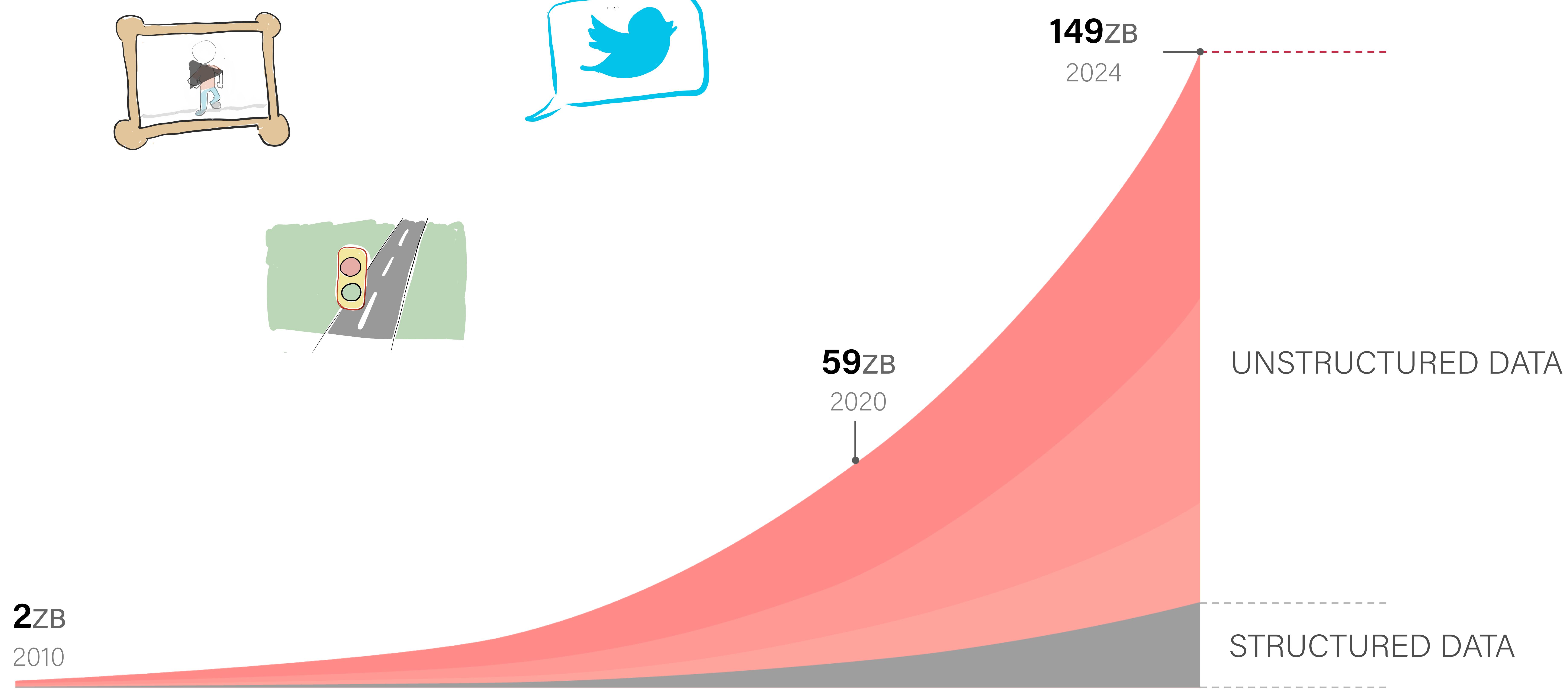


# Beyond File and Block Storage in Kubernetes

Sidhartha Mani







2010

40 Gbit/s

40 Gigabit Ethernet (**40GBASE-X**) 4×

2020

100 Gbit/s

100 Gigabit Ethernet (**100GBASE-X**) 10×/4×

2010

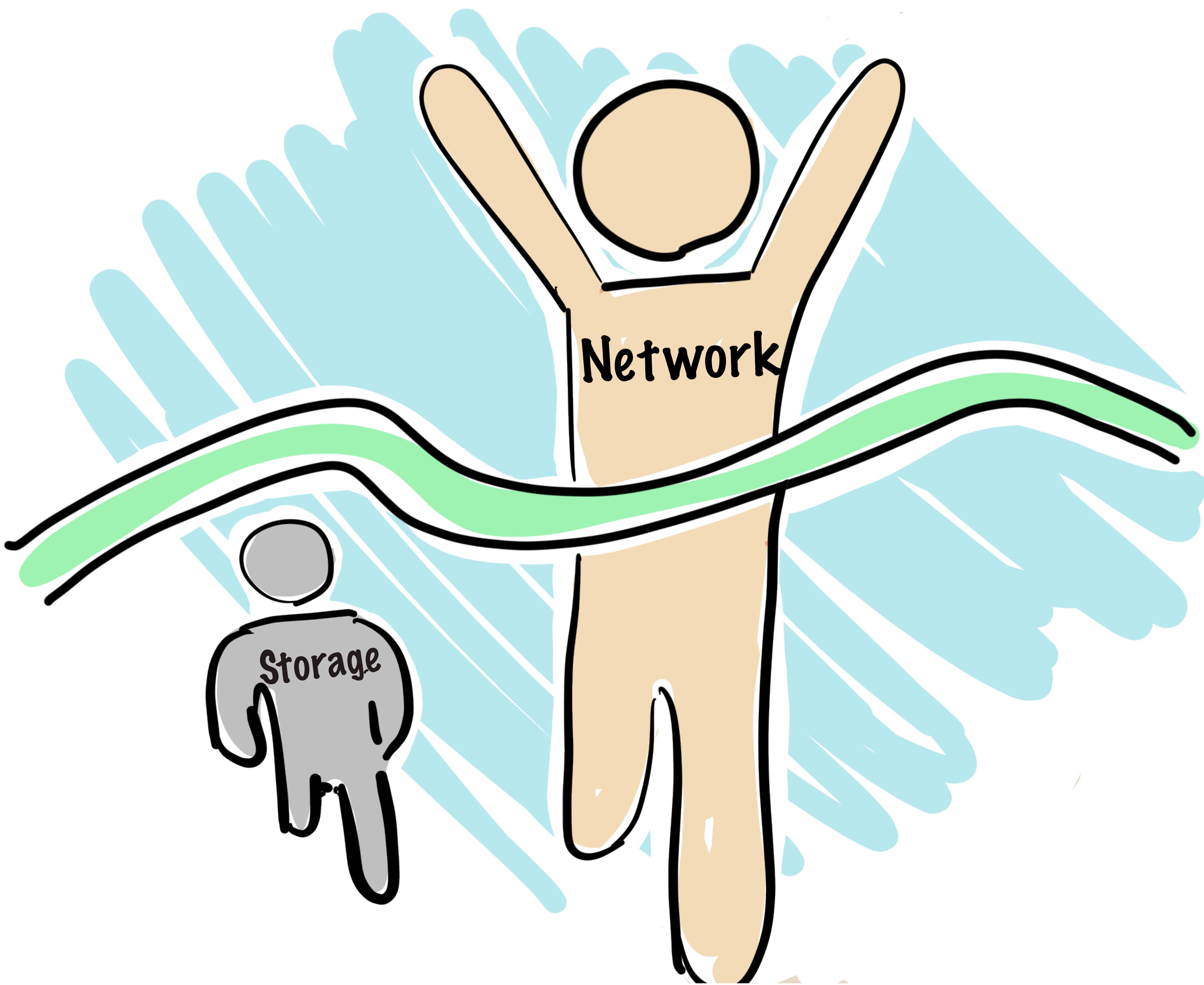
-

Upto 600 GB

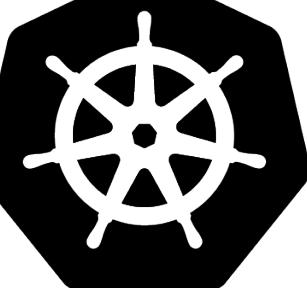
2020

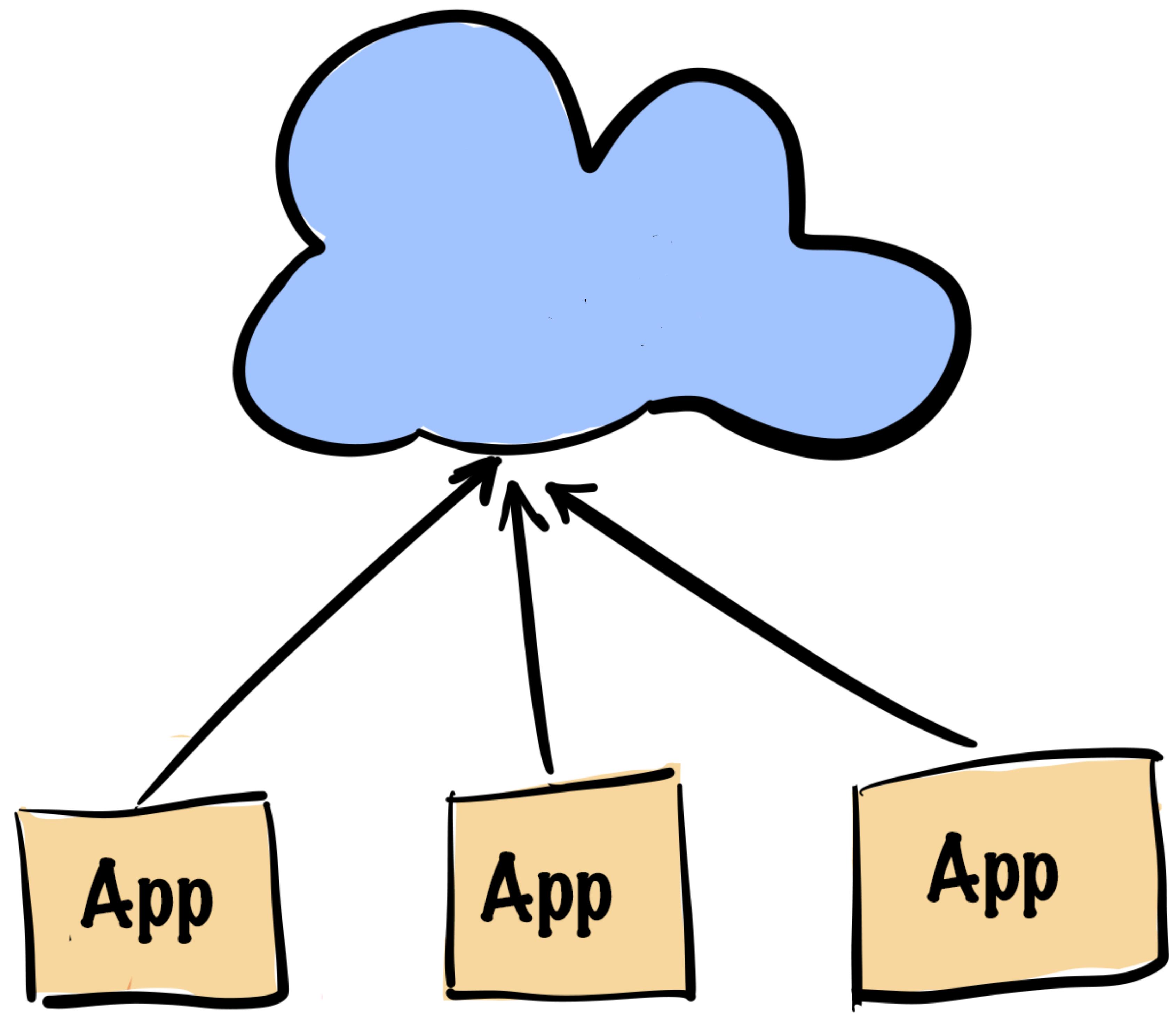
5GB/s Read 3.5GB/s Write

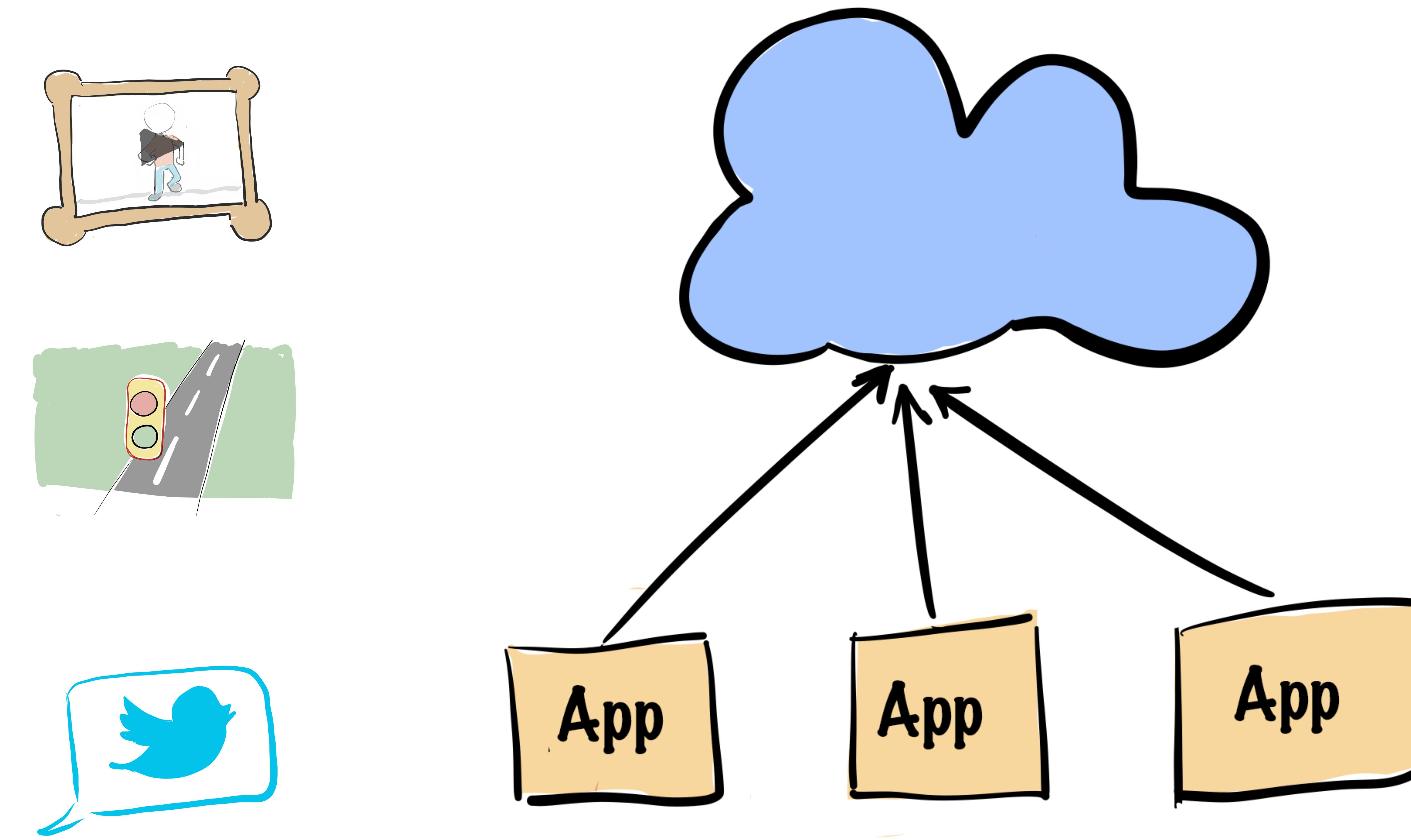
Upto 16TB

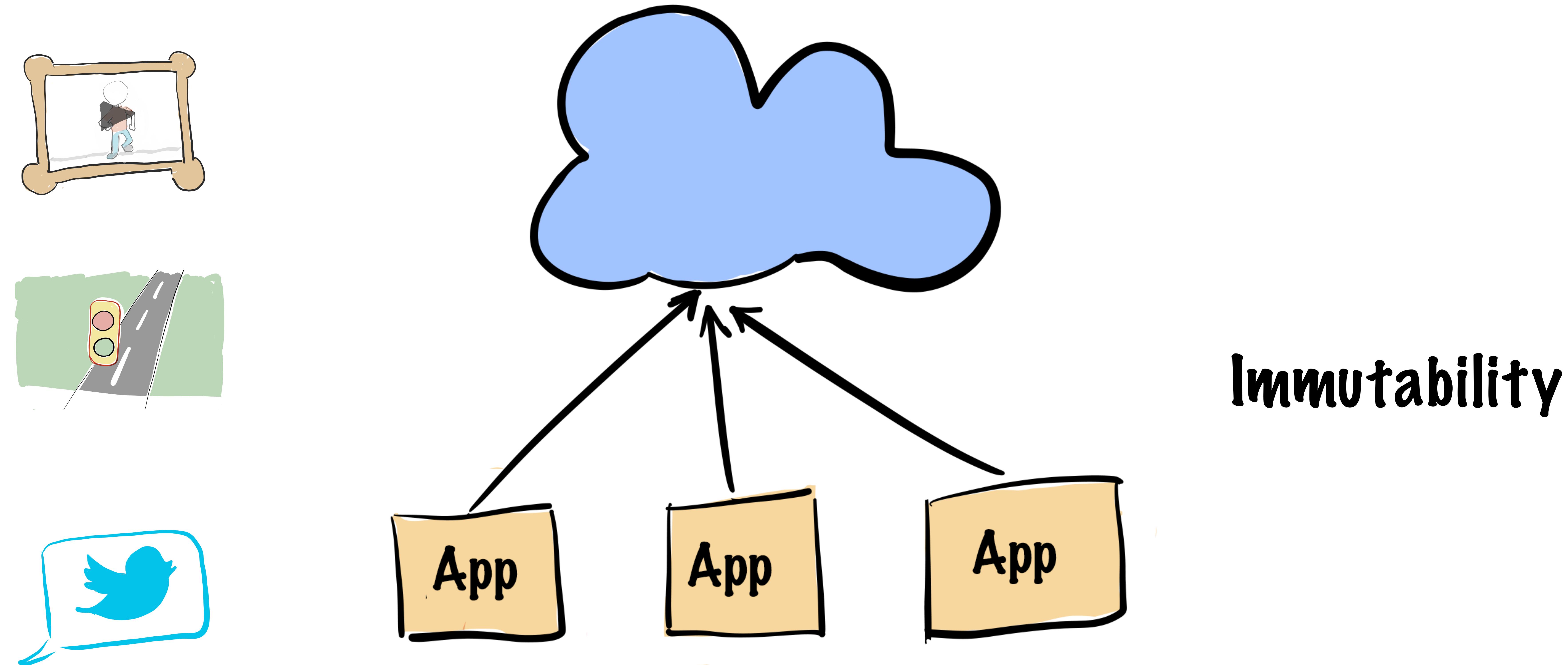


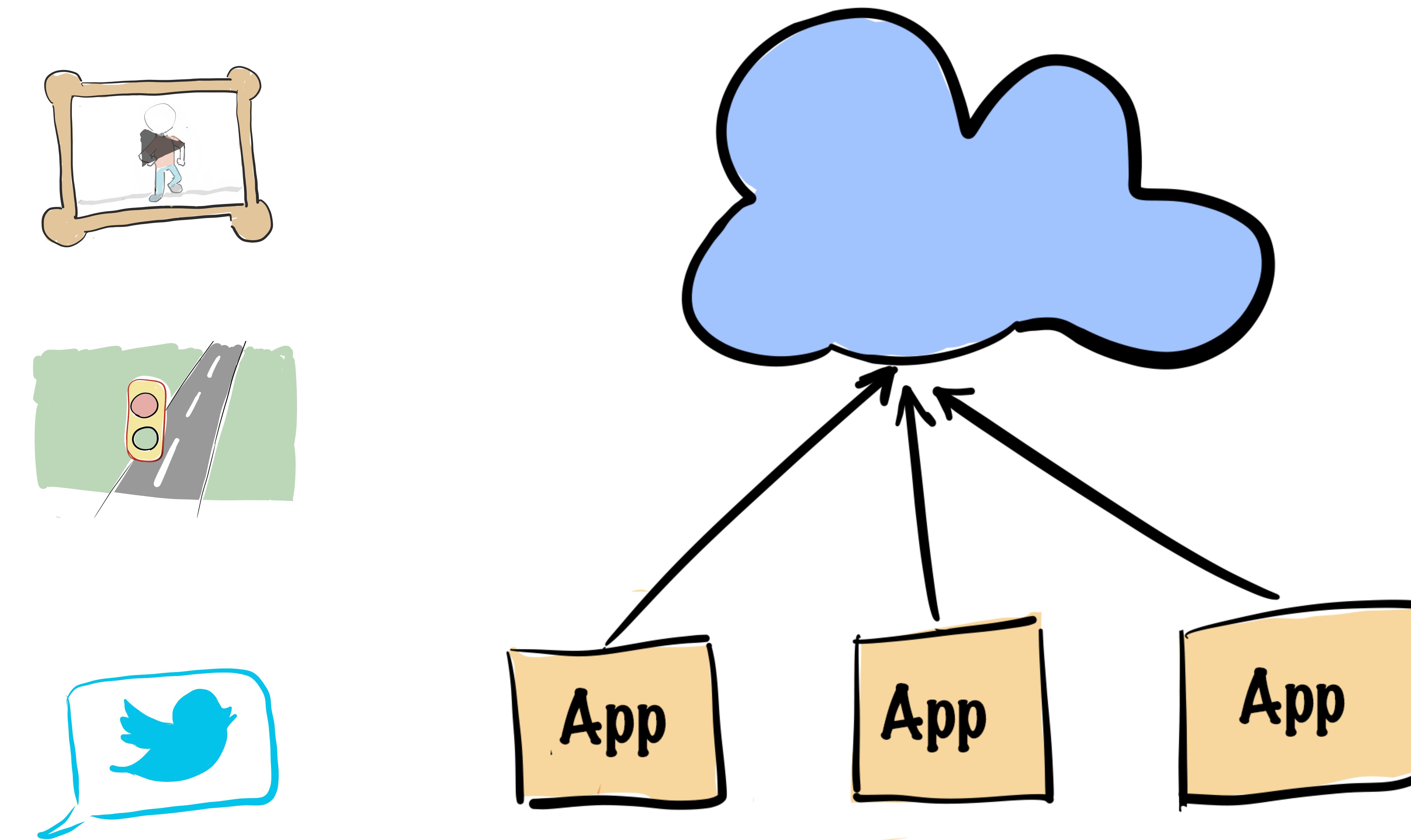
MINIO

 kubernetes



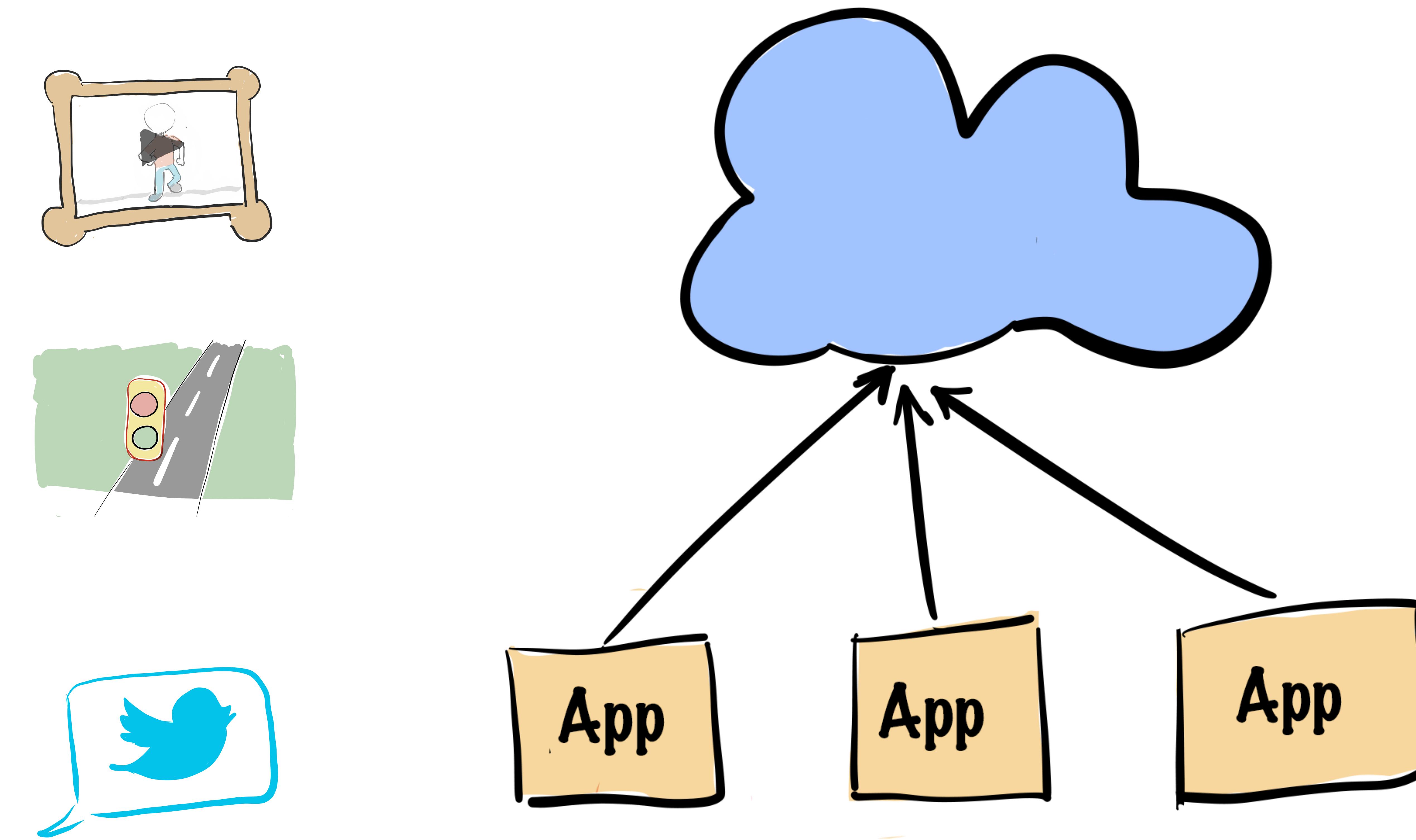






**Immutability**

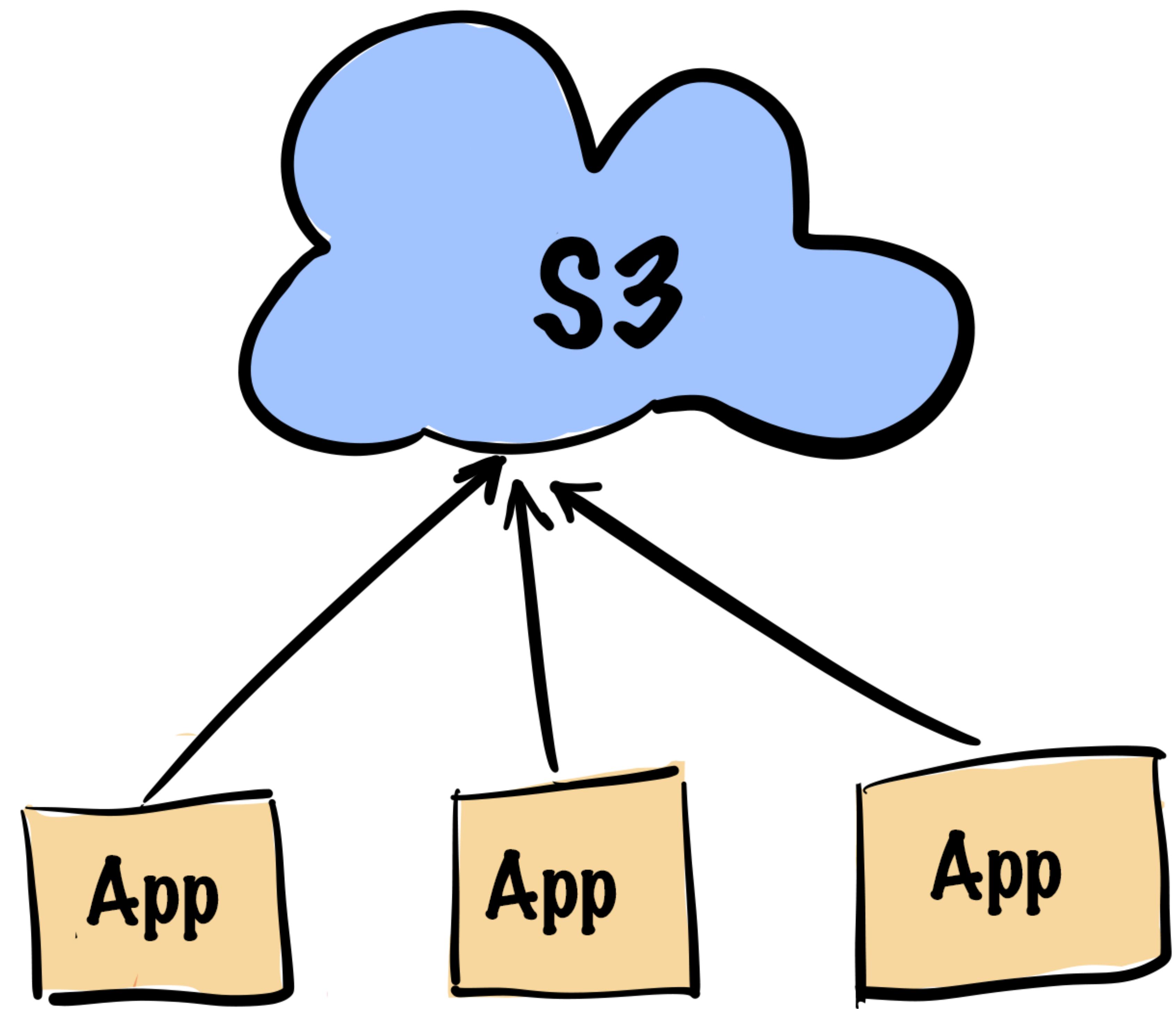
**Durability**



Immutability

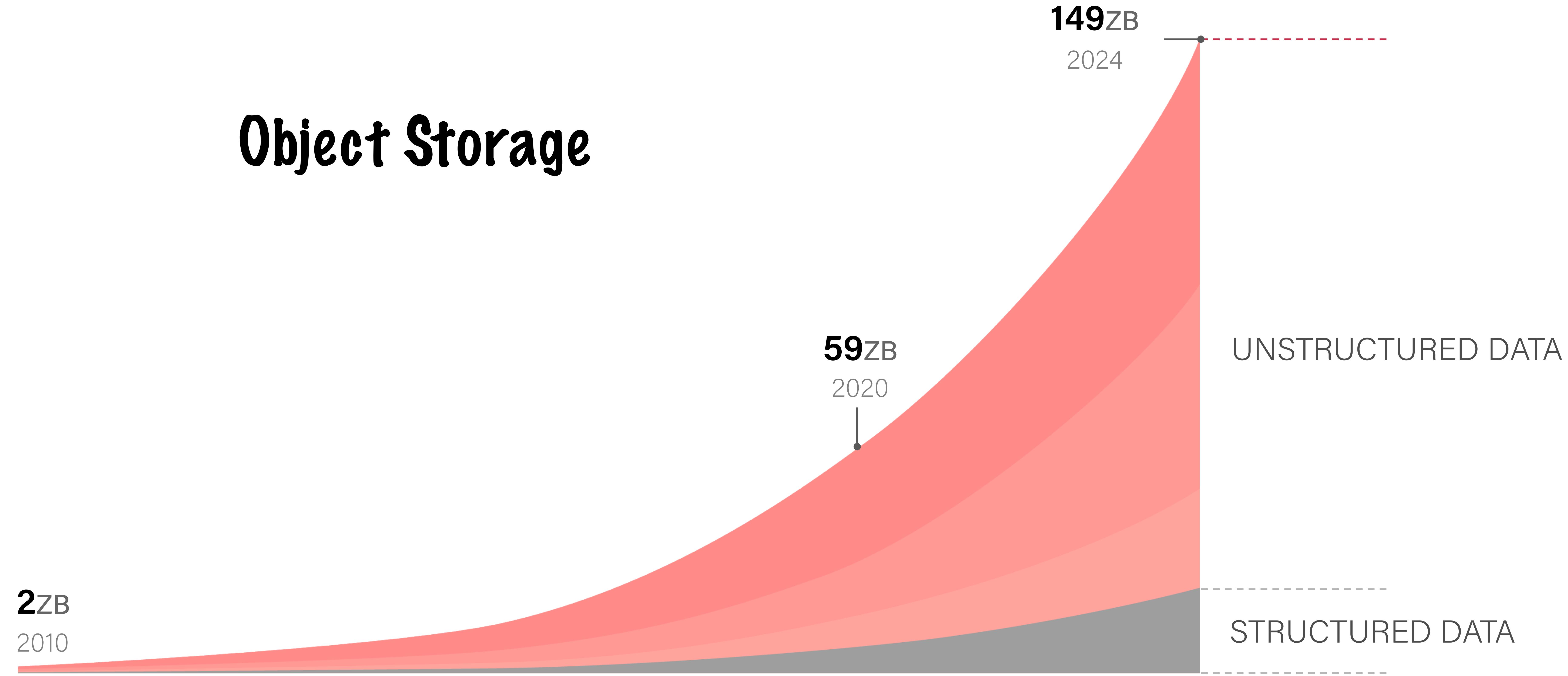
Durability

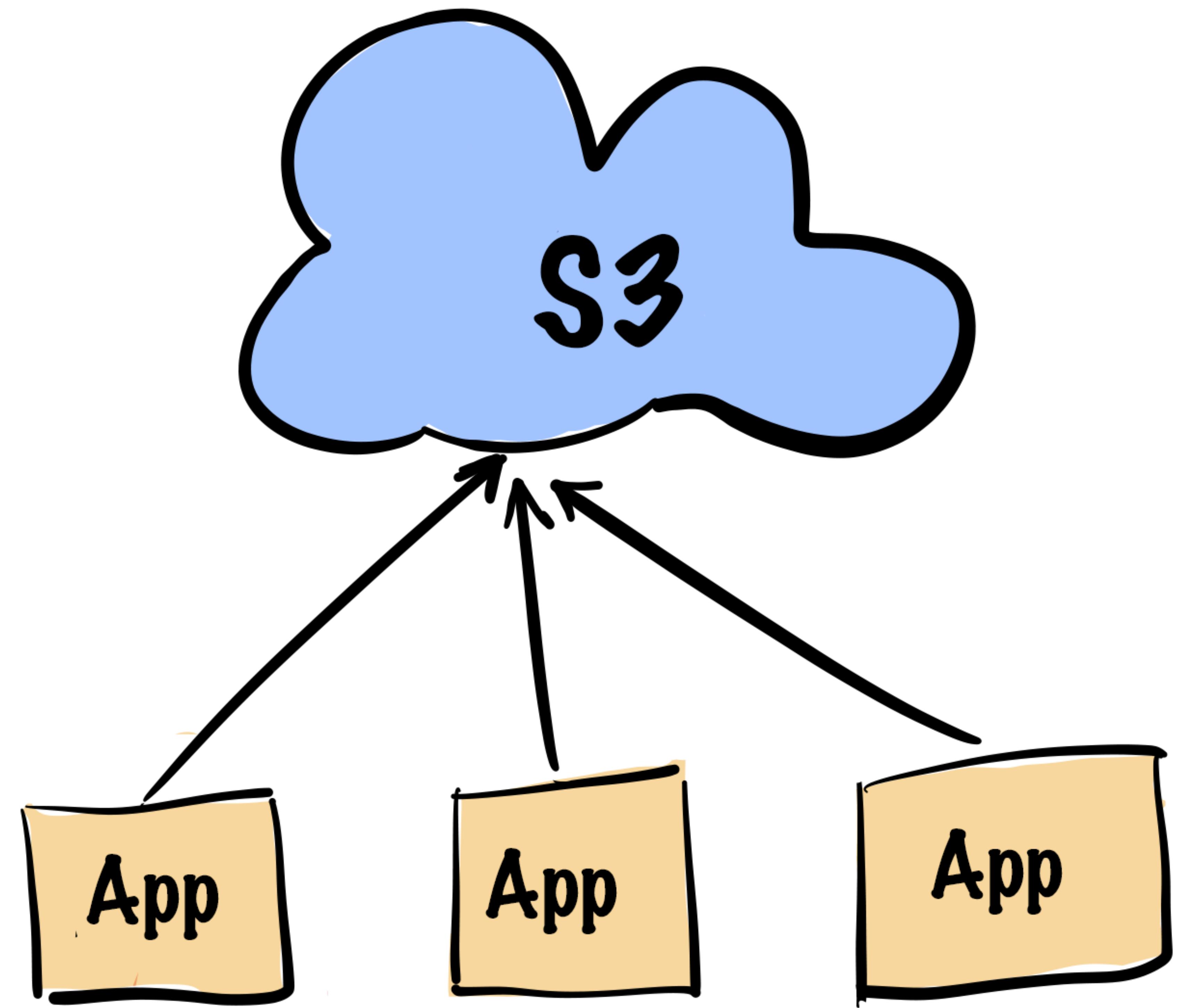
Stateless



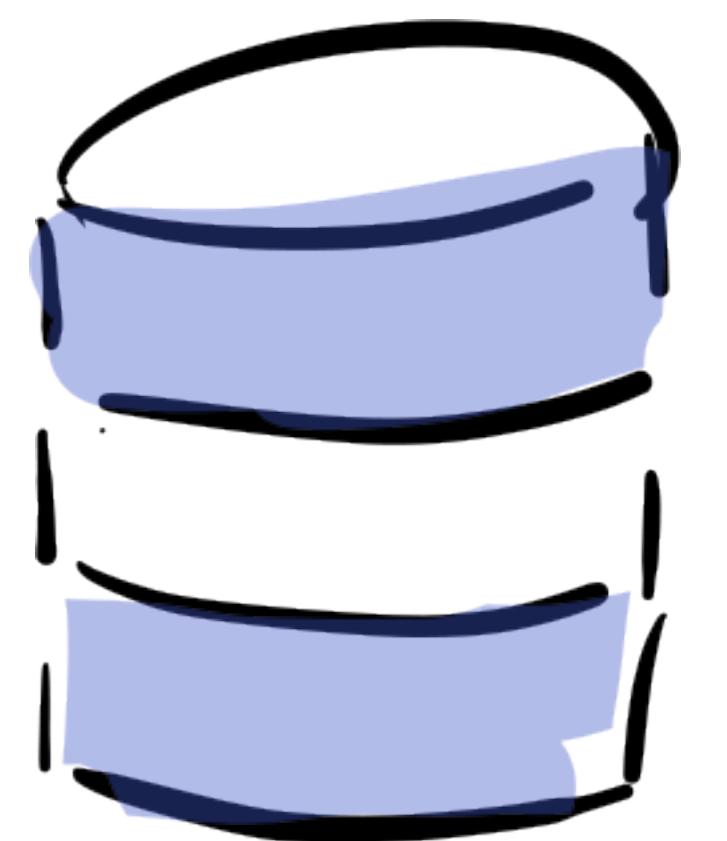
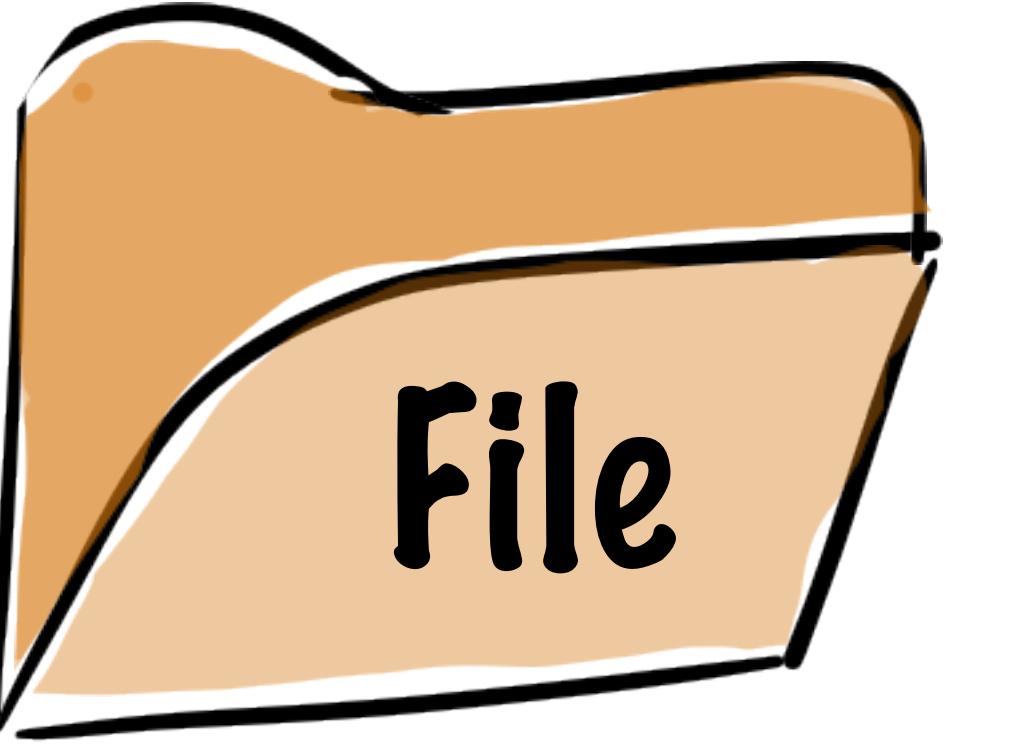
Object Storage

# Object Storage





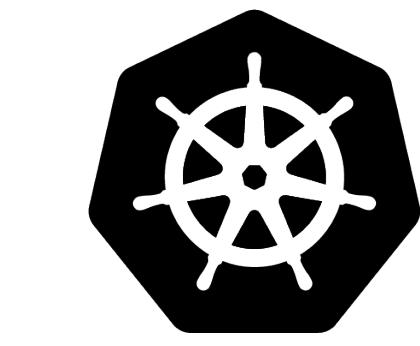
Kubernetes



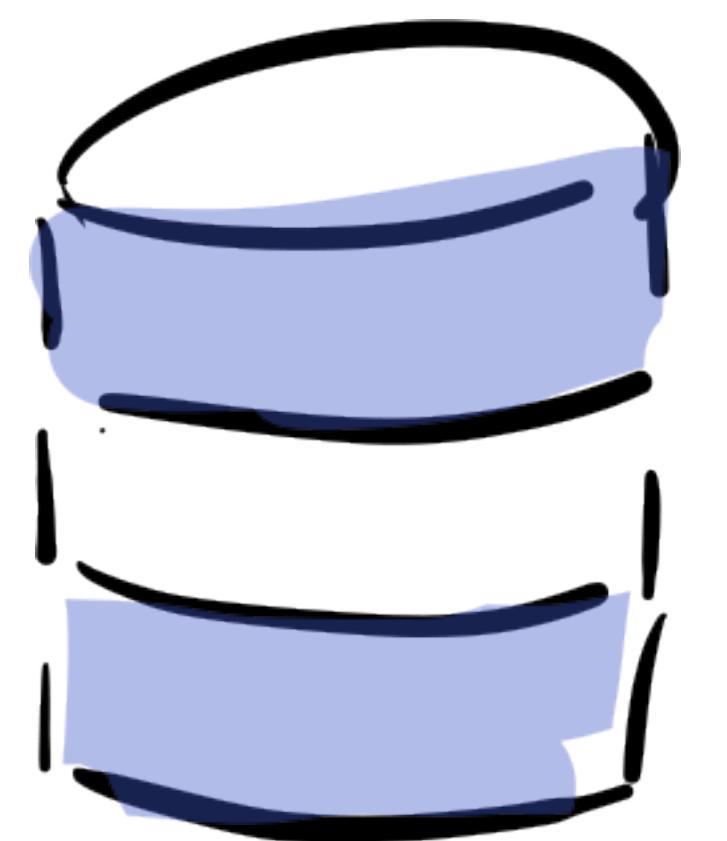
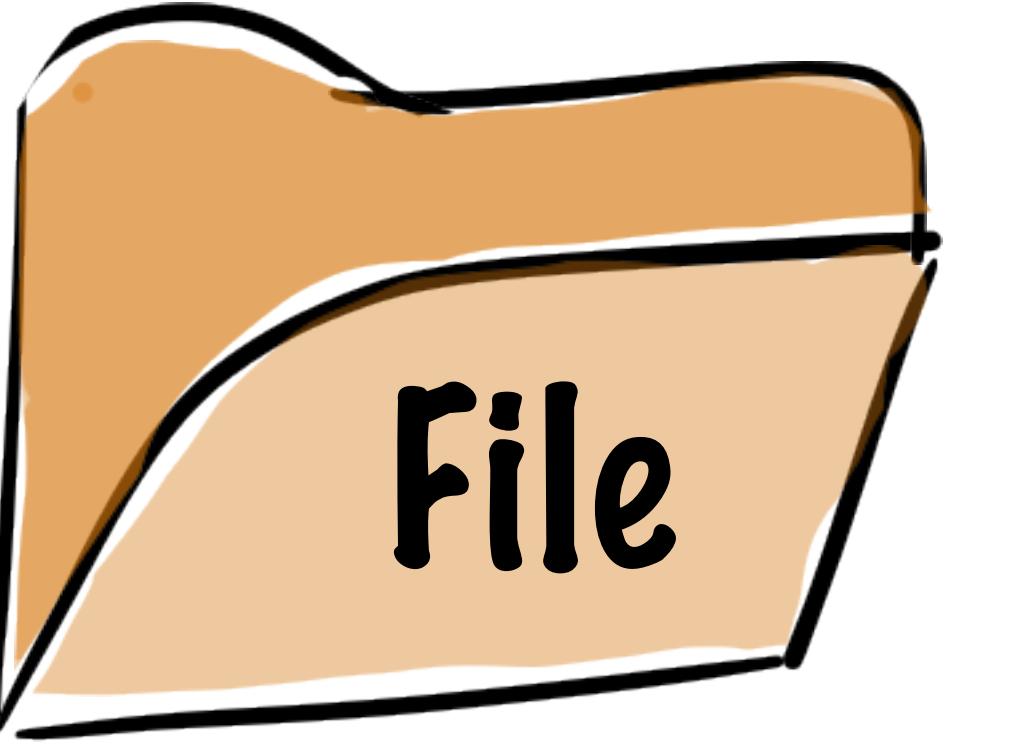
Block

Kubernetes

MINIO

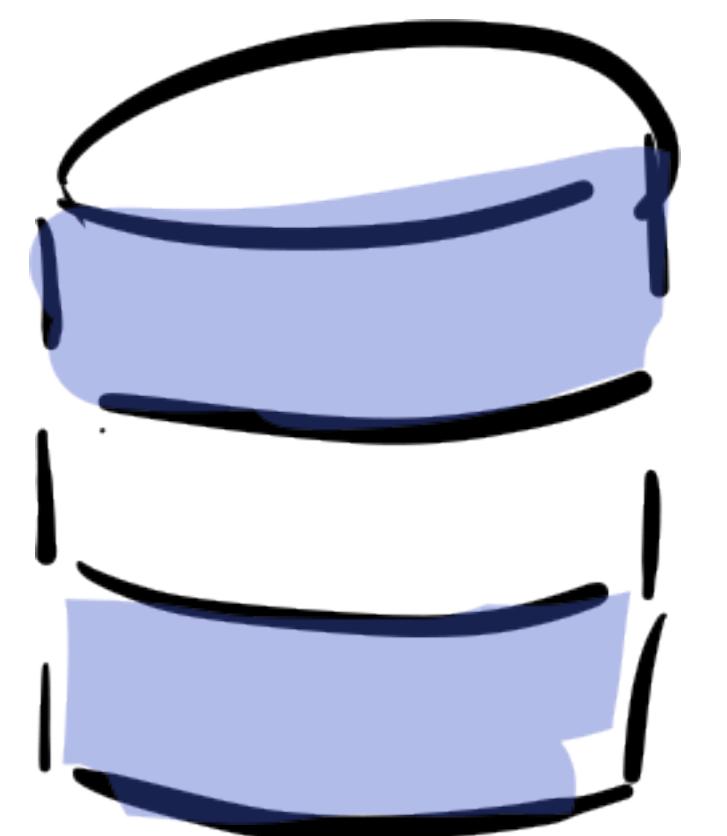
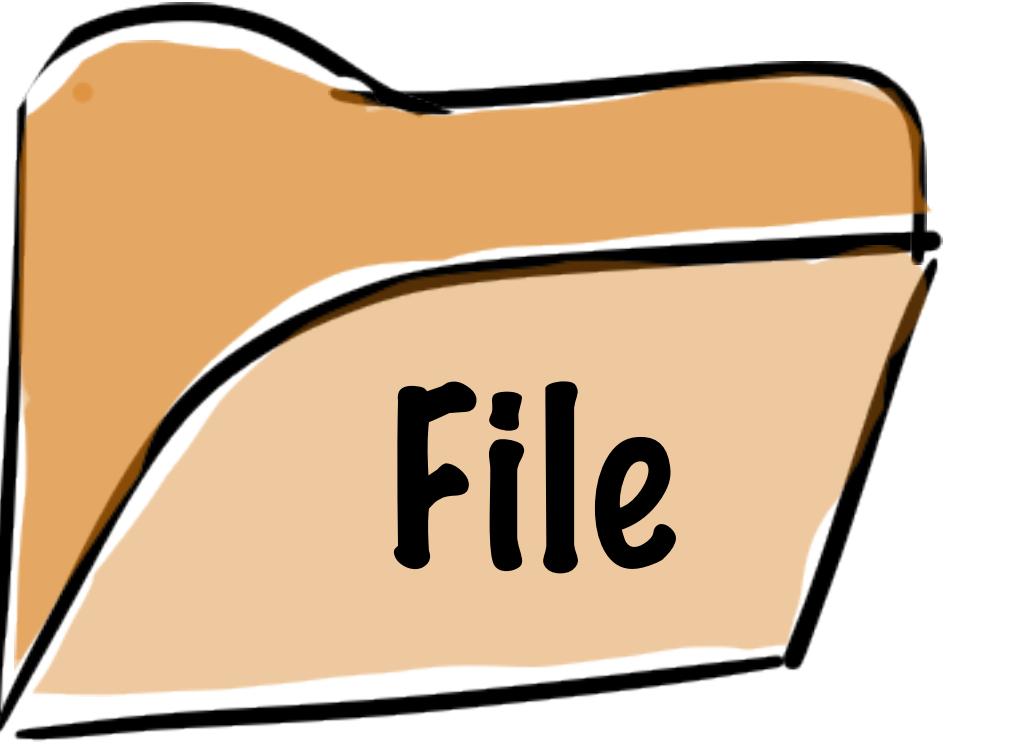
 kubernetes

The Kubernetes logo consists of a black hexagon containing a white steering wheel icon.



Block

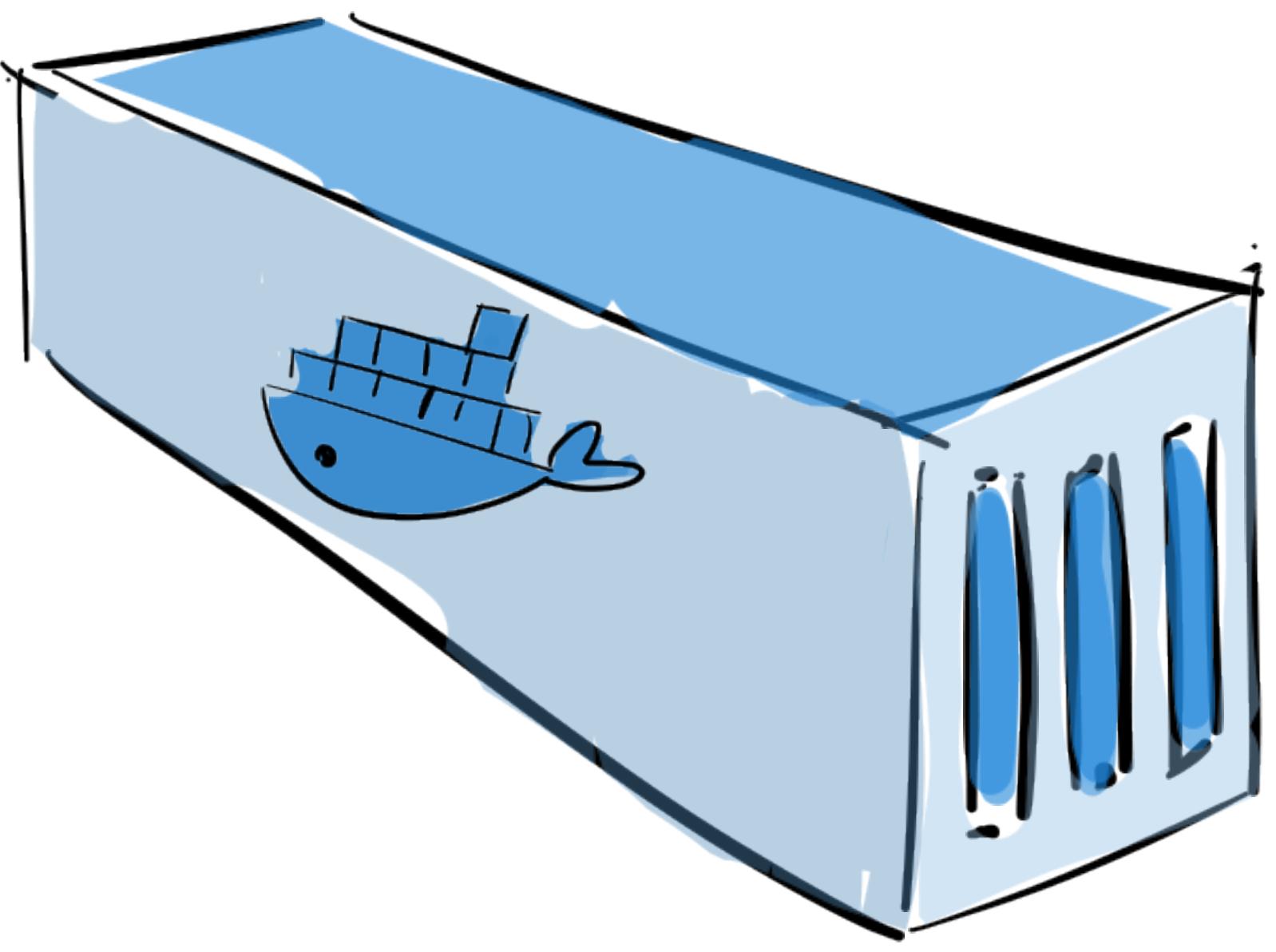
## Kubernetes CSI



Block

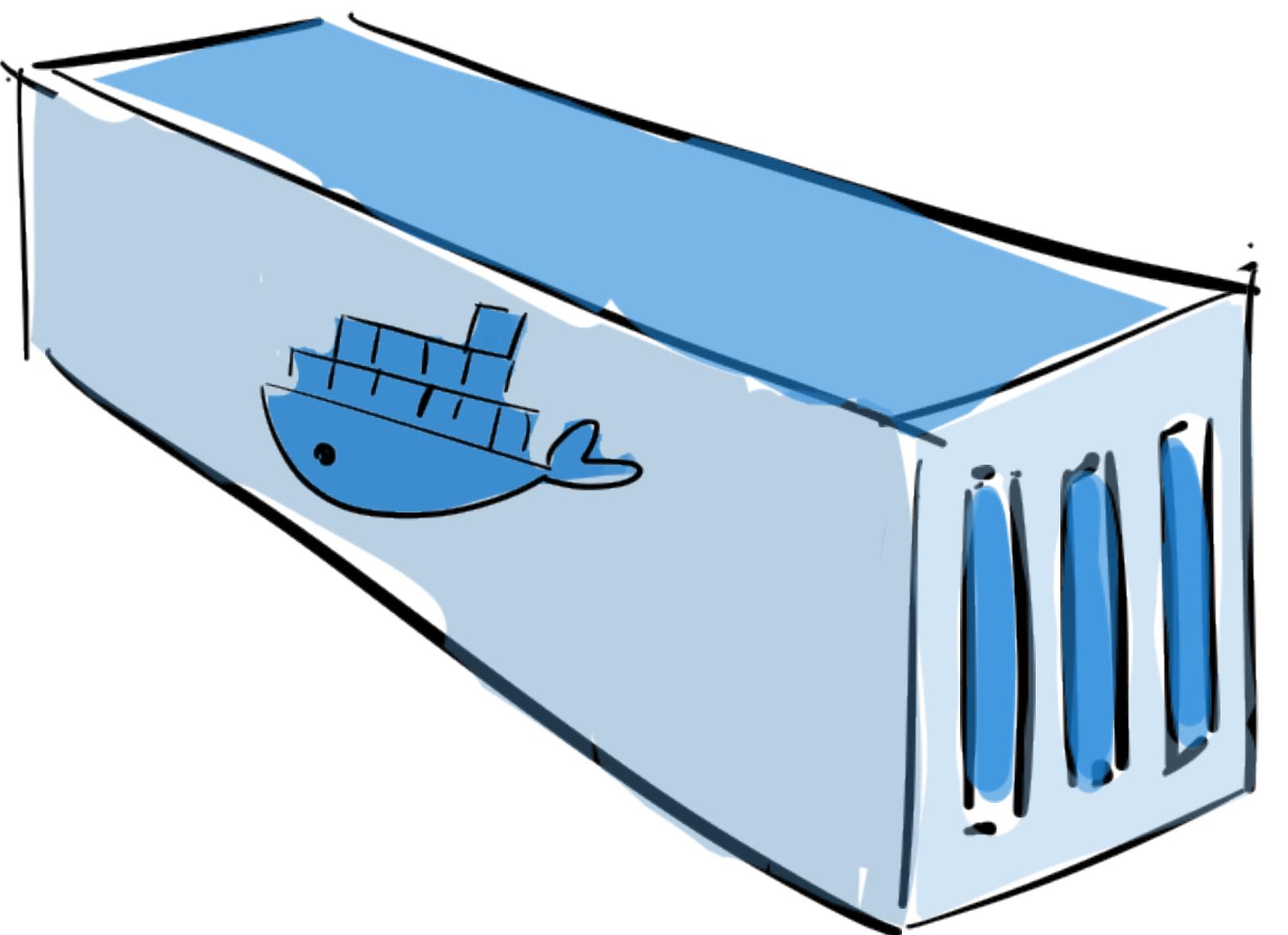
Kubernetes CSI

GA v1.13



Bucket



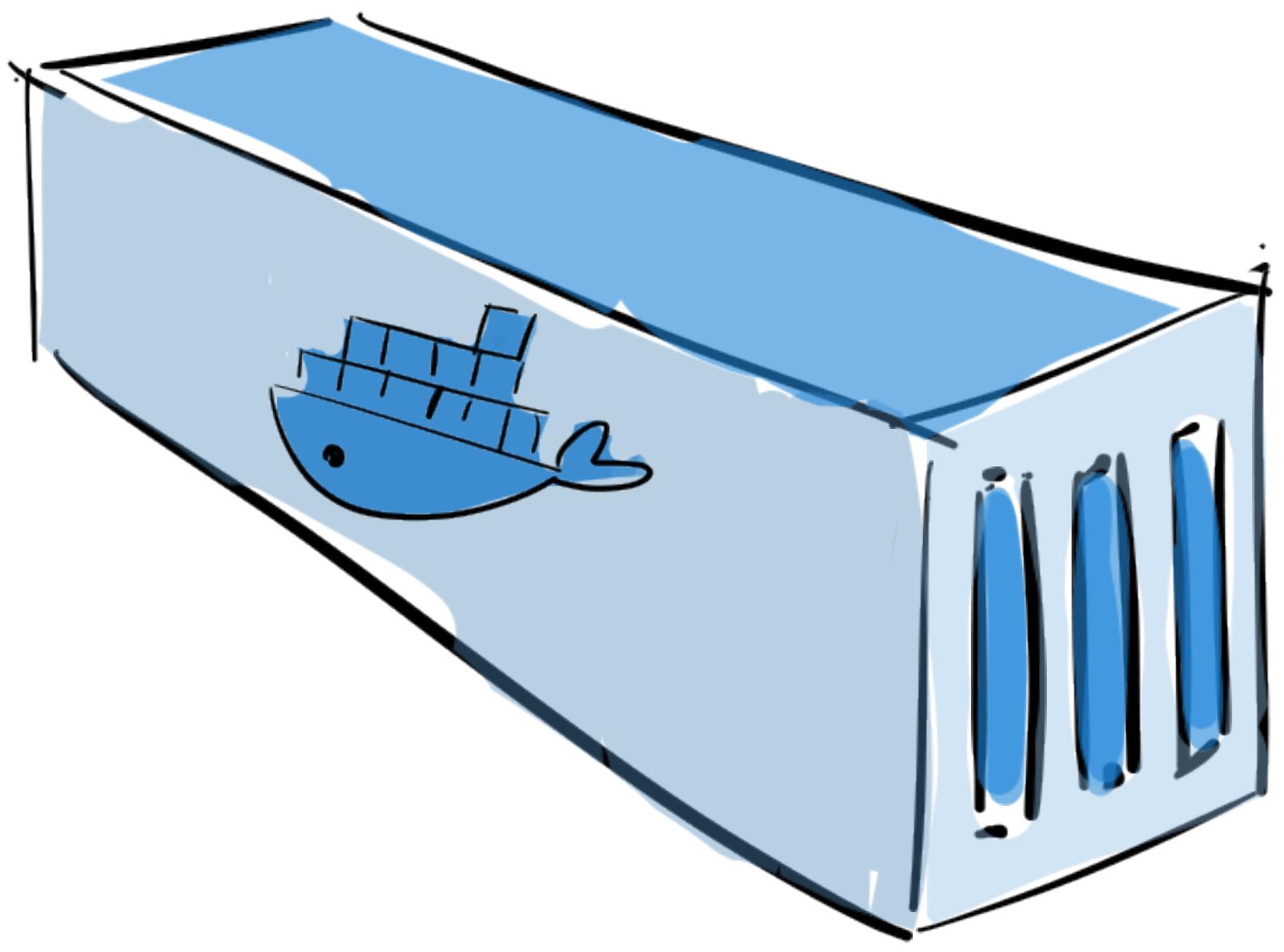


## Bucket API

Interface for vendors

Mechanism for applications  
to consume buckets





CreateBucket



GrantAccess

RevokeAccess

DeleteBucket

## Bucket\* APIs

Bucket

BucketRequest

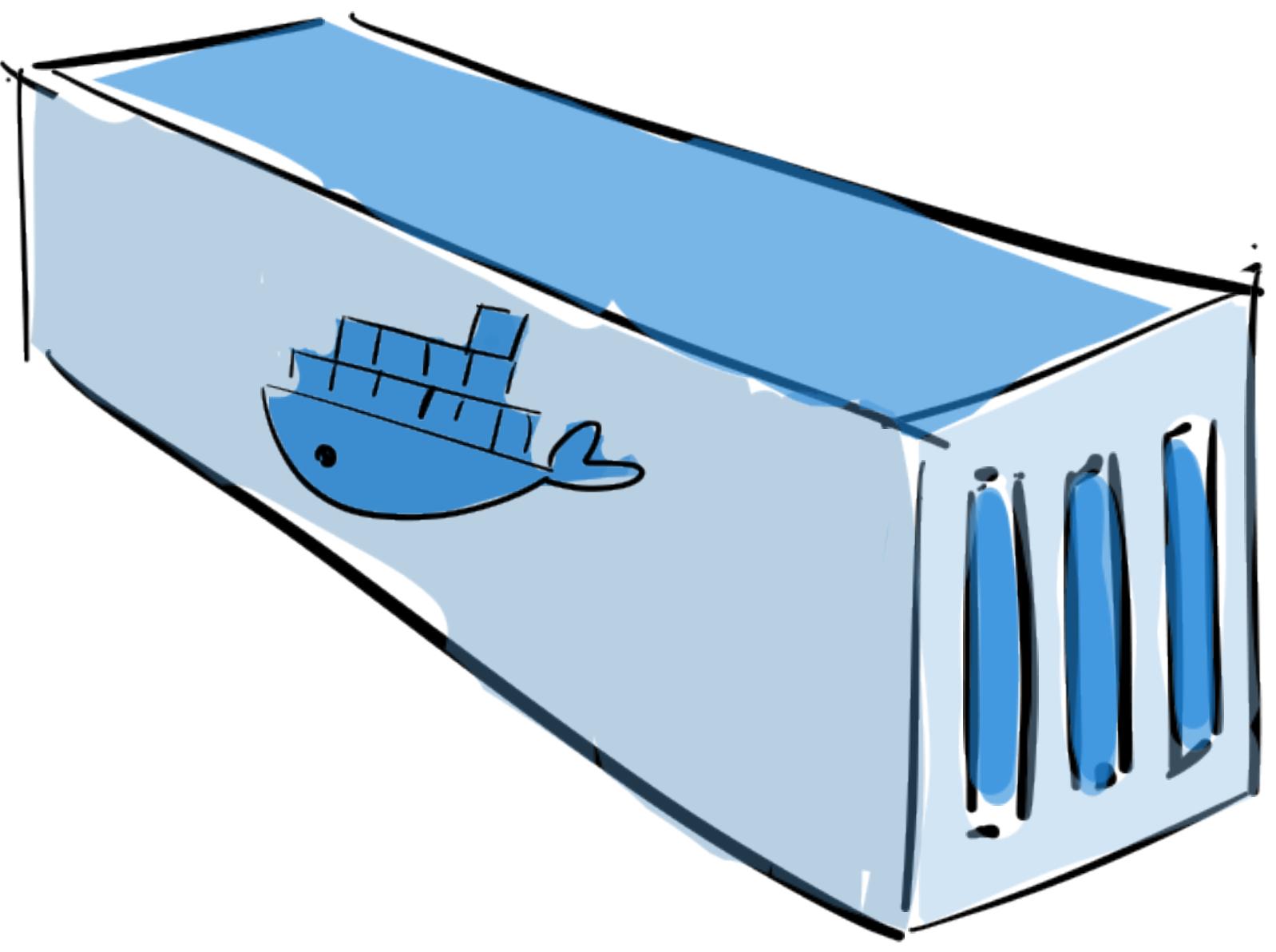
BucketClass

## BucketAccess\* APIs

BucketAccess

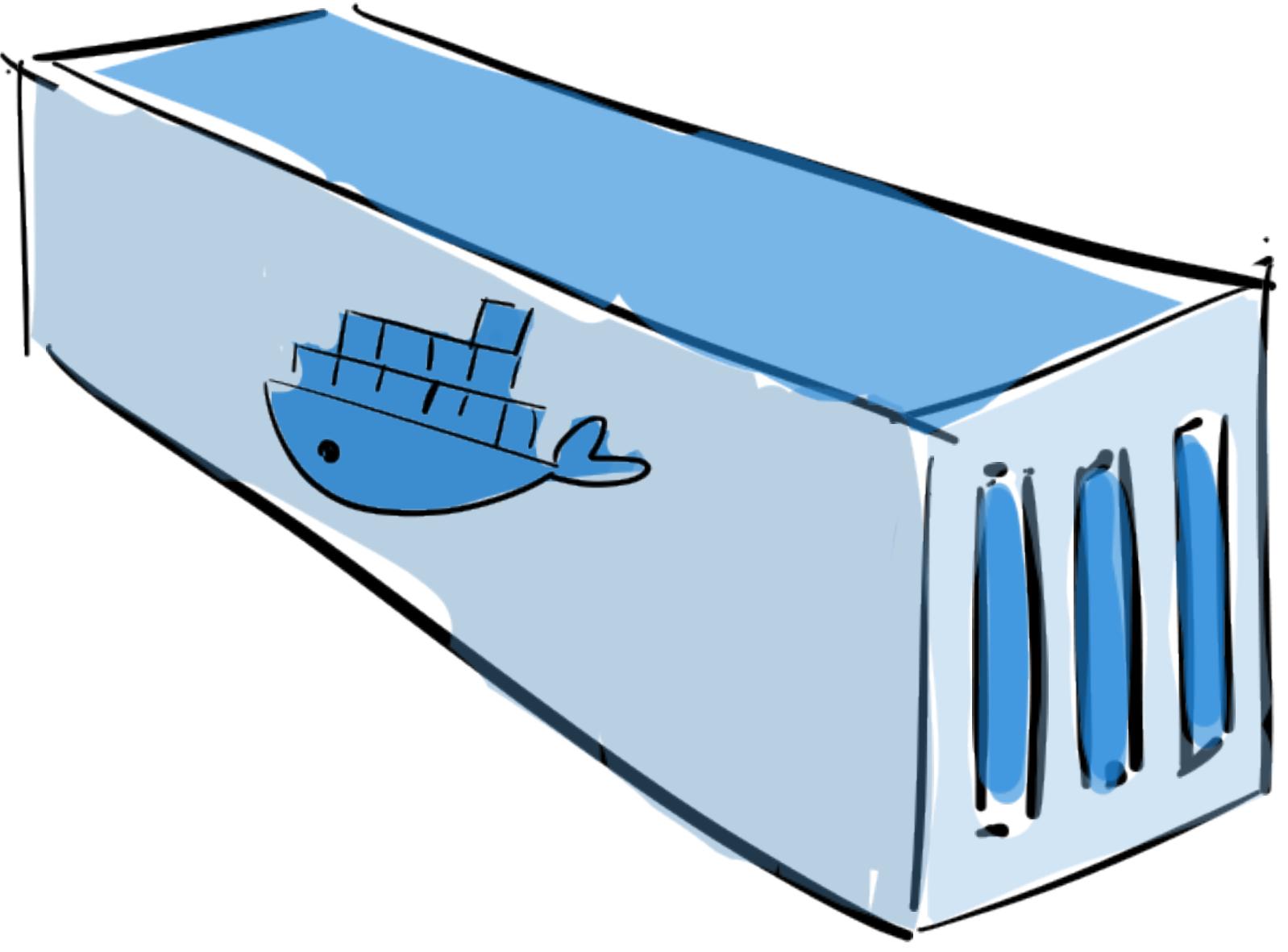
BucketAccessRequest

BucketClassAccess



## Bucket API





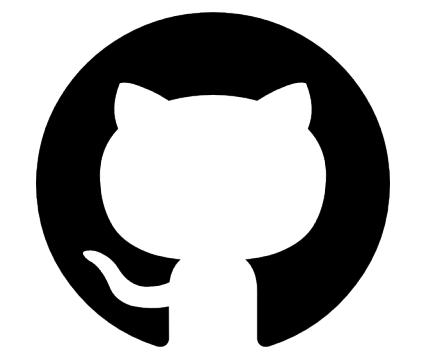
# Bucket API

KEP Merged

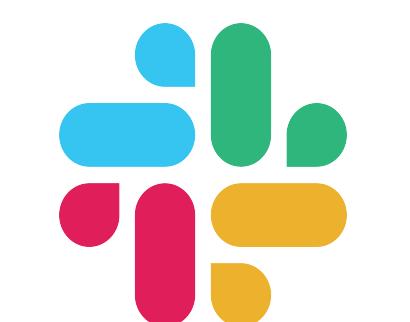
Oct 20th 2020

Alpha plan: v1.21





kubernetes-sigs/container-object-storage-interface-spec



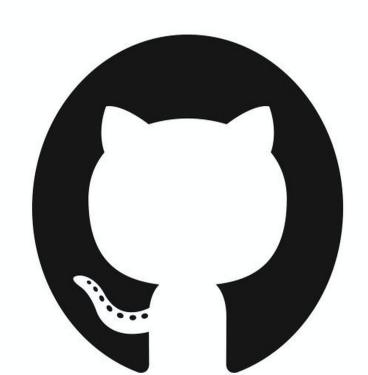
Kubernetes-Slack: #sig-storage-cosi



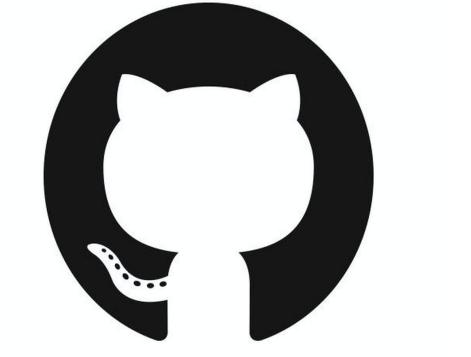
Sidhartha Mani



Jeff Vance



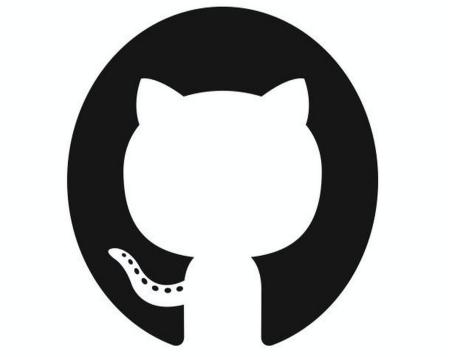
Sajan Jaiswal



Krish Chowdary



Srini BrahmaRoutu



Robert Ratnayake

## Bucket API Workgroup

Every Thursday at 10AM PST