

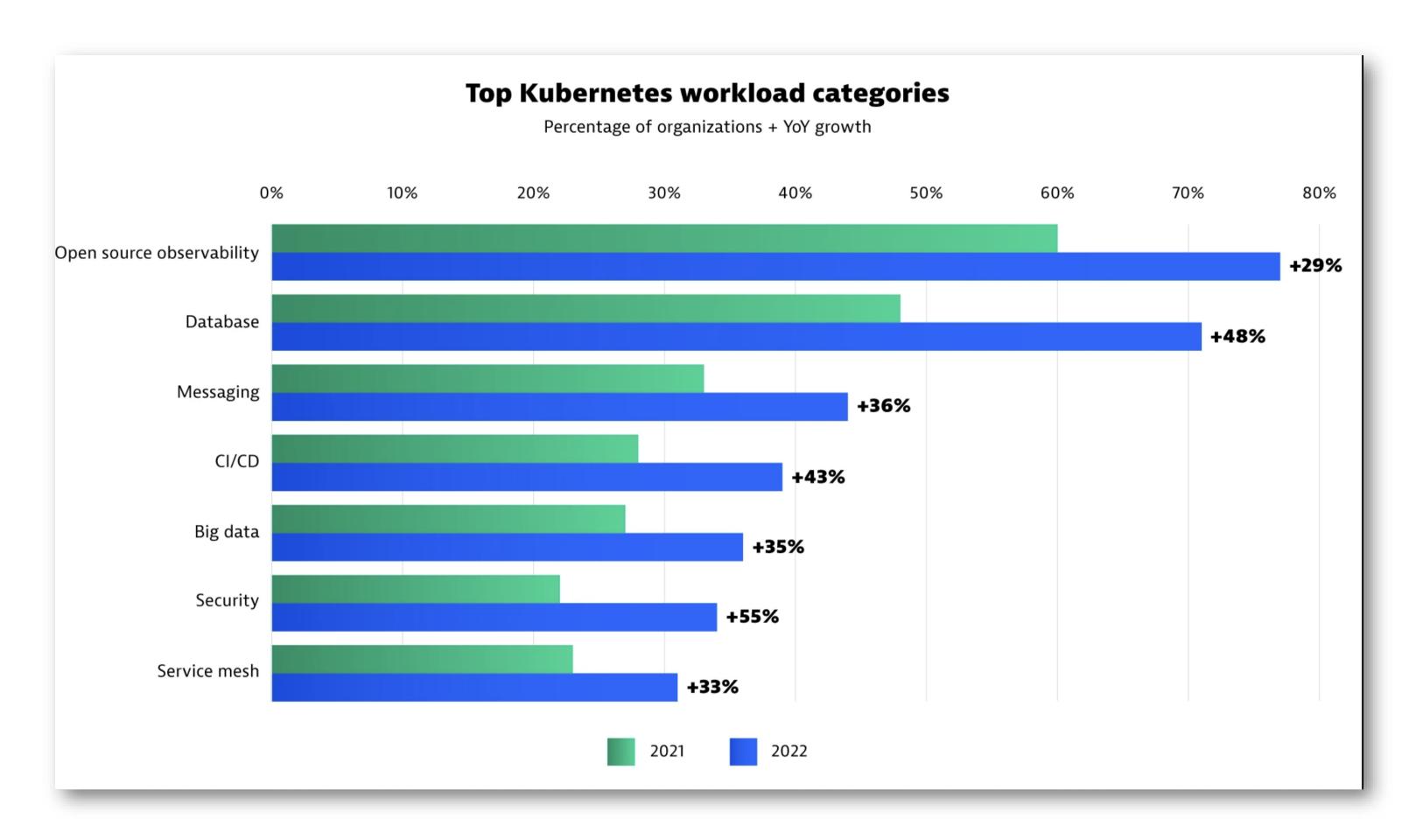
Enabling Smart Application Communications Everywhere

Data On Kubernetes

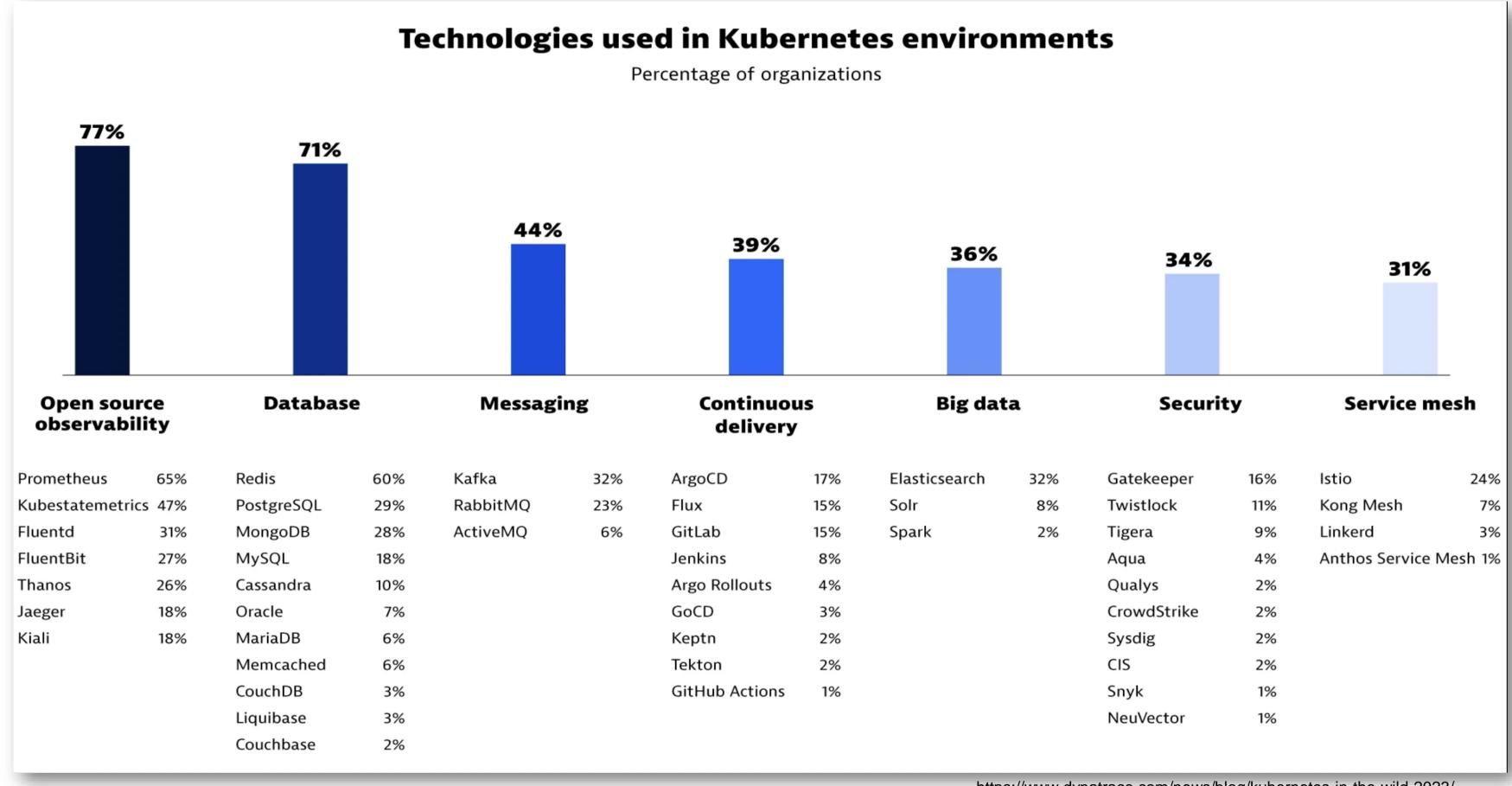
May 2023



Data Services on the raise

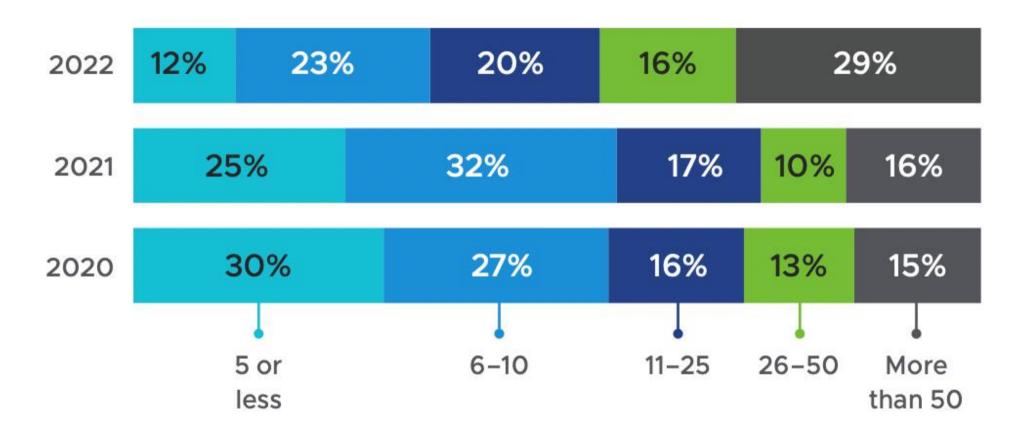


Double clicking into survey



Multi Cluster is here & growing

Number of Kubernetes clusters currently in operation



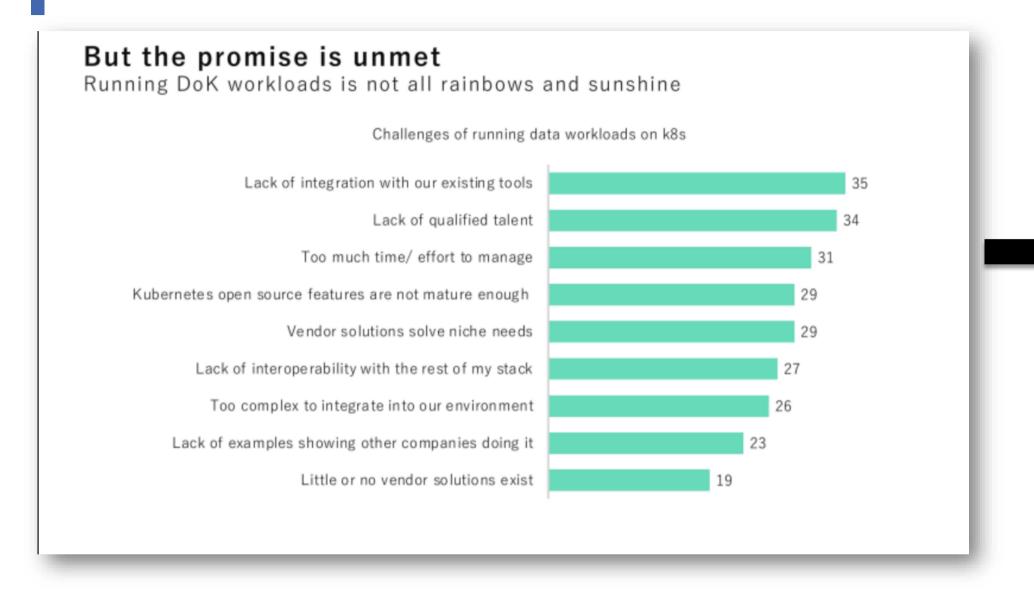
Source: VMWare, 2022

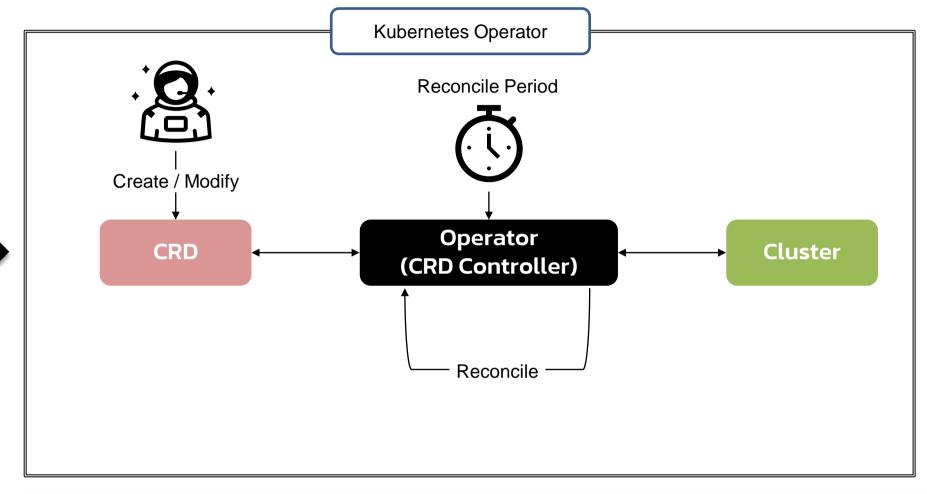
75% Enterprises use more than 1 cloud

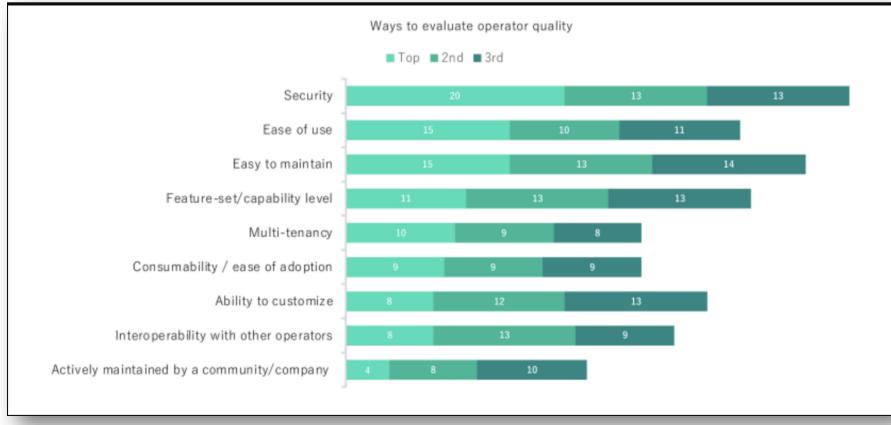
Multi-cloud is needed for resiliency; moving workloads close to data results in better performance and security

- 1. Multi region -- Availability
- 2. Closer to customers
- 3. Follow the sun model
- 4. Remove vendor dependency
- 5. Mergers and acquisitions
- 6. Multi cloud
- 7. Compliance reasons
 - > GDPR
 - Data sovereignty / residency

Day 2 challenges -> Operator pattern









Operator Validation



Data On Kubernetes – Operator Layers

Data Life Cycle Automation

BACKUP,
RECOVERY,
DATA
MOVEMENT

DB LIFECYCLE

OPS
MANAGEMENT

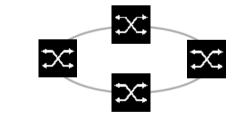
| Connector | Connector | Connector | Application (pod) | Connector | Connecto

Network Resources Automation

Physical Location



MULTI SITE (REGION, EDGE)



Virtual Clusters – Flat network, Service discovery

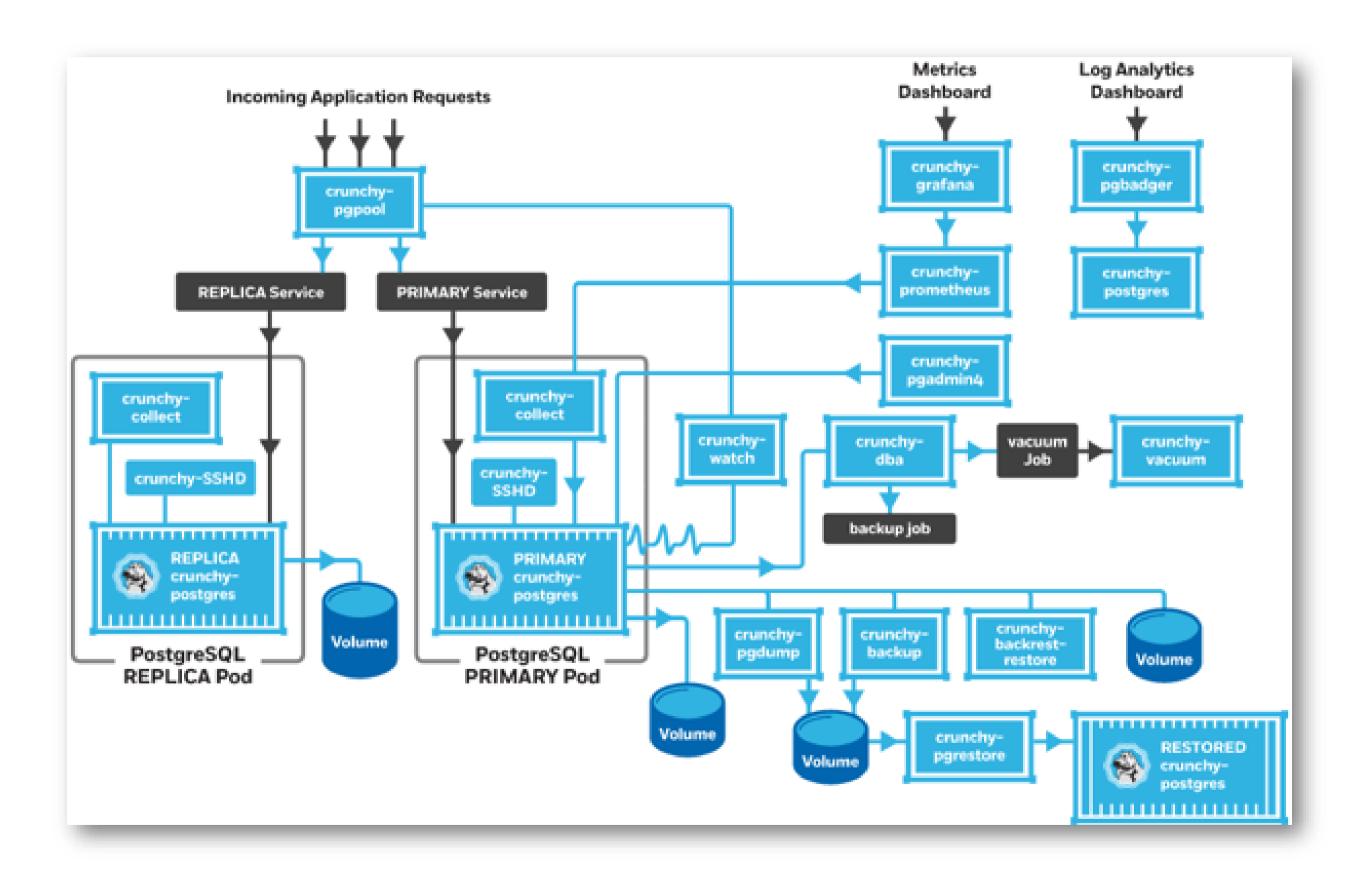
Lowest latency / high throughput

Central Aggregation





Crunchy Operator Pattern

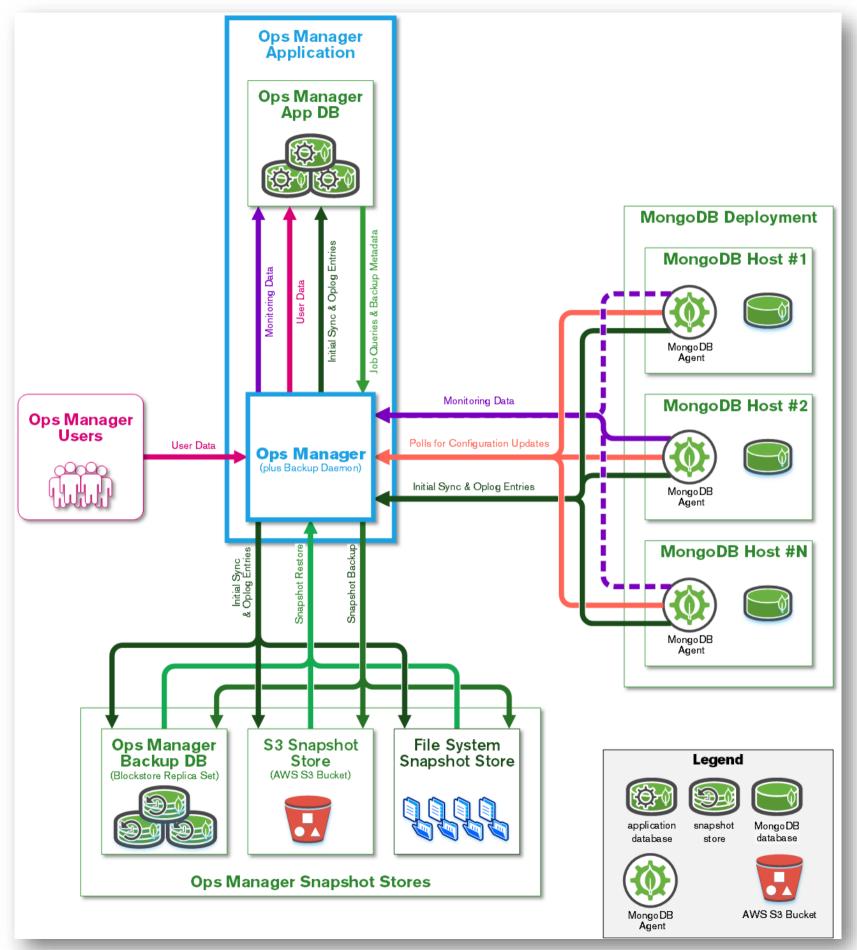


MUST HAVE



- 1. Multi Cluster networking
- 2. Multi Cloud
- 3. Service Discovery
- 4. Kubernetes distribution agnostic

MongoDB Operator Pattern – Multi Region



MUST HAVE



- 1. Multi Cluster networking
- 2. Multi Cloud
- 3. Service Discovery
- 4. Kubernetes distribution agnostic

Drivers for Layered Operator Solution

