



Using MongoDB Atlas the Lazy Way

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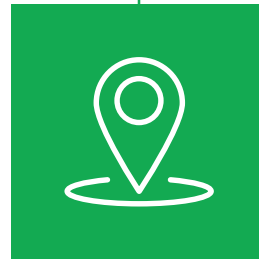
@rubenTerceno

MongoDB at a Glance

MongoDB Operational Data Platform



Document Model



Distributed Architecture



Deployment Options



Document Model



RDBMS

PERSON

Pers_ID	Surname	First_Name	City
0	Miller	Paul	London
1	Ortega	Alvaro	Valencia
2	Huber	Urs	Zurich
3	Blanc	Gaston	Paris
4	Bertolini	Fabrizio	Rome

CAR

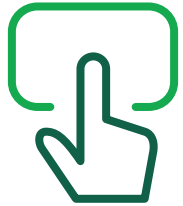
Car_ID	Model	Year	Value	Pers_ID
101	Bentley	1973	100000	0
102	Rolls Royce	1965	330000	0
103	Peugeot	1993	500	3
104	Ferrari	2005	150000	4
105	Renault	1998	2000	3
106	Renault	2001	7000	3
107	Smart	1999	2000	2

NO RELATION



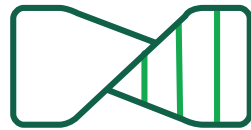
```
{  
  first_name: 'Paul',  
  surname: 'Miller',  
  city: 'London',  
  profession: ['banking', 'finance'],  
  location: [45.123,47.232],  
  cars: [  
    { model: 'Bentley',  
      year: 1973,  
      value: 100000, ... },  
    { model: 'Rolls Royce',  
      year: 1965,  
      value: 330000, ... }  
  ]  
}
```

Best way to work with data



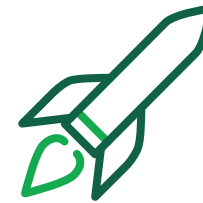
Easy:

Work with data in a natural, intuitive way



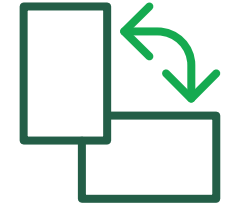
Flexible:

Adapt and make changes quickly



Fast:

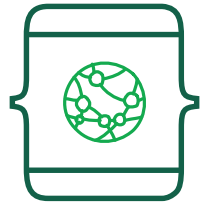
Get great performance with less code



Versatile:

Supports a wide variety of data models and queries

Intelligently put data where you need it



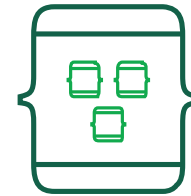
Highly Availability

Built-in **multi-region** high availability, replication & automated failover



Workload Isolation

Ability to run both **operational & analytics workloads** on same cluster, for timely insight and lower cost



Scalability

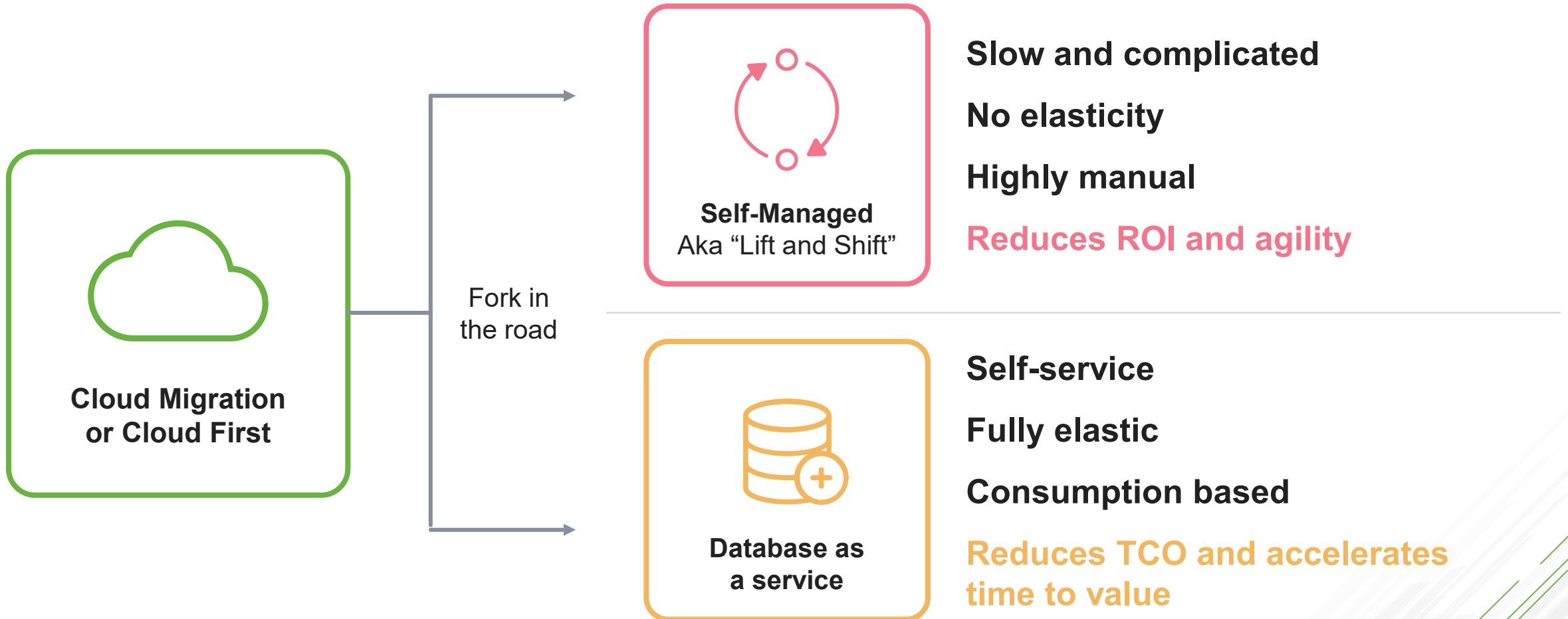
Elastic horizontal scalability – add/remove capacity dynamically **without downtime**



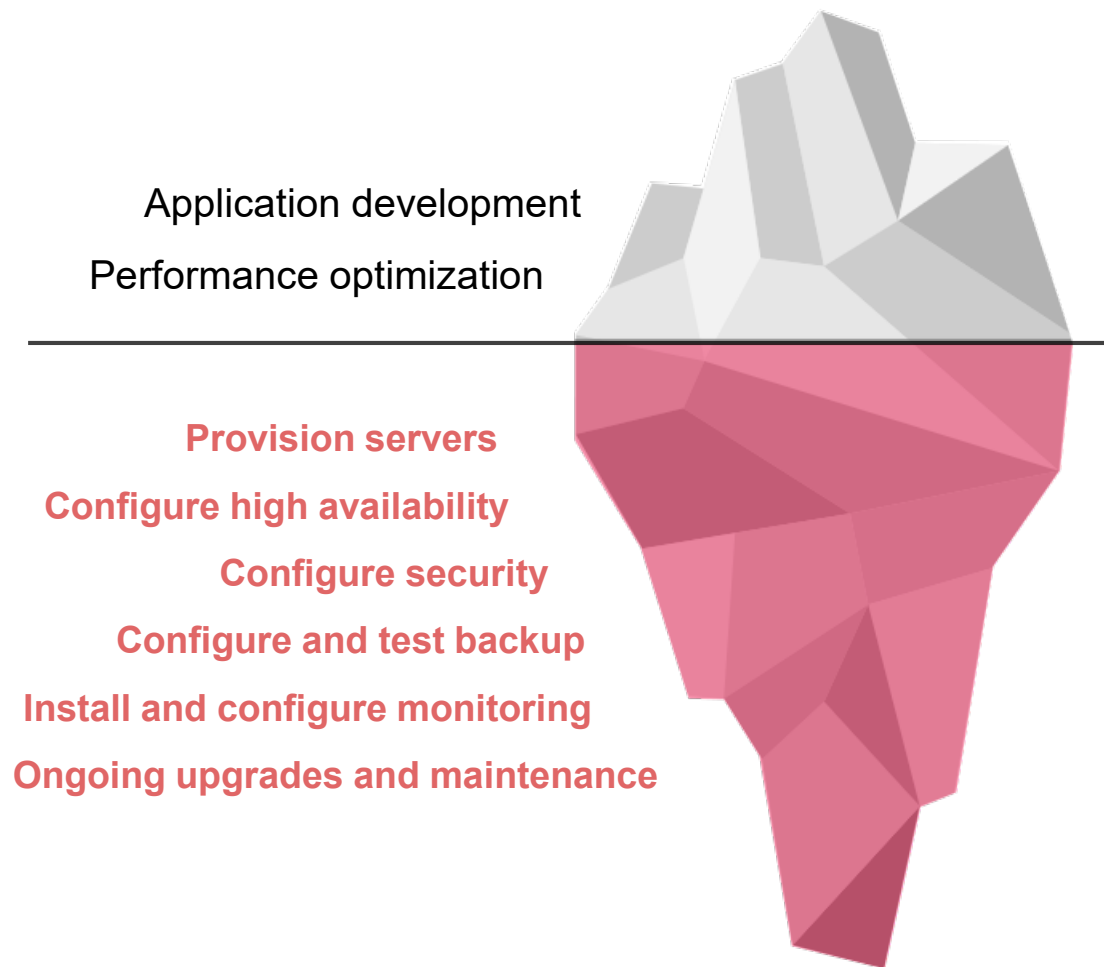
Locality

Declare **data locality rules** for governance (e.g. data sovereignty), class of service & local low latency access

Customers have two choices: Self-managed or DBaaS



The **TRAP** of doing it yourself



Manual work is the hallmark of low-performing IT organizations.

Deployments	Config. Mgmt.	Testing
64% more manual work	65% more manual work	40% more manual work

2017 State of DevOps Report, Puppet

The **IMPACT** of automated cloud services

Application development
Performance optimization



Self-service and on-demand

Fully elastic

API-driven

Secure and compliant

Move faster

46x

more code deploys

Be strategic

44%

more time on new work

Improve quality

21%

less time on fixing code

Build securely

50%

less time on fixing security issues

2017 State of DevOps Report, Puppet

Atlas

unlocks **agility**
and **reduces**
cost



Self-service and
elastic



Global and cloud
agnostic



Enterprise-grade
security and SLAs



Comprehensive
monitoring



Managed backup



Stitch: Serverless
platform services

Waiting for you at
booth #G15



mongoDB