



KubeCon



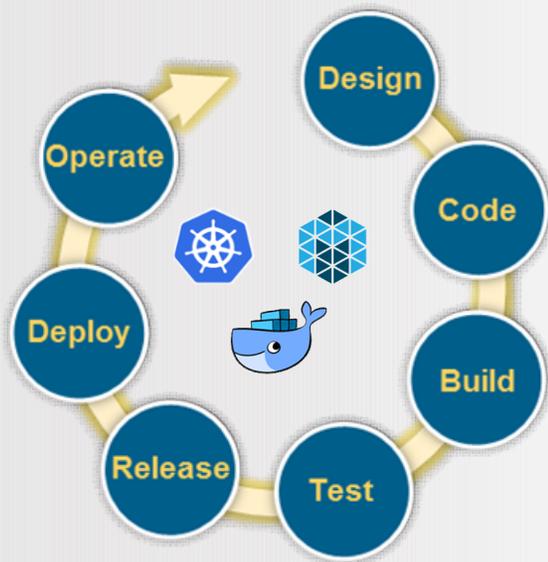
CloudNativeCon

North America 2017

Essentials For Building Your Own Database as a Service

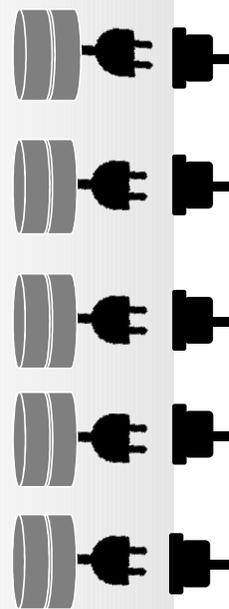
Bala Chandrasekaran, *Dell EMC*

Consuming Databases: Till Now



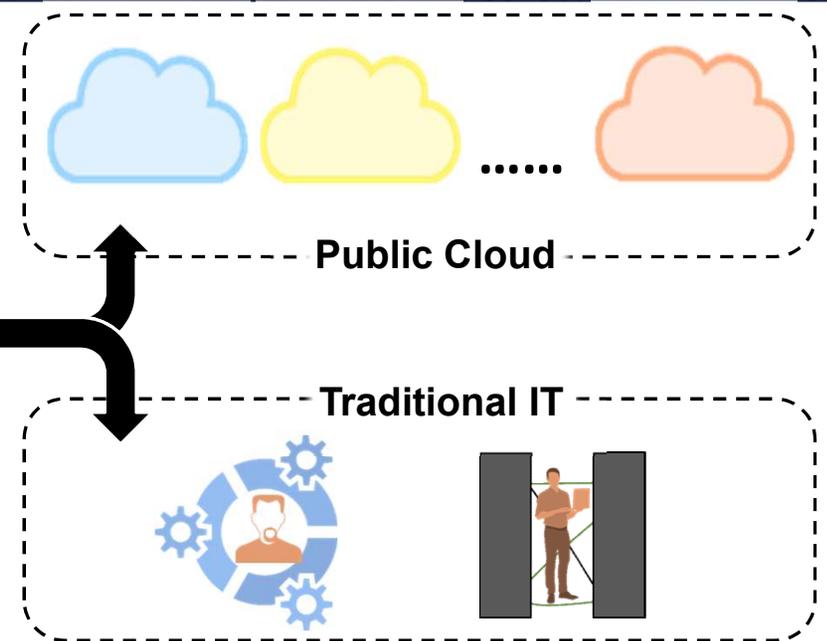
Application Services

Microservices
Containers
Orchestrators

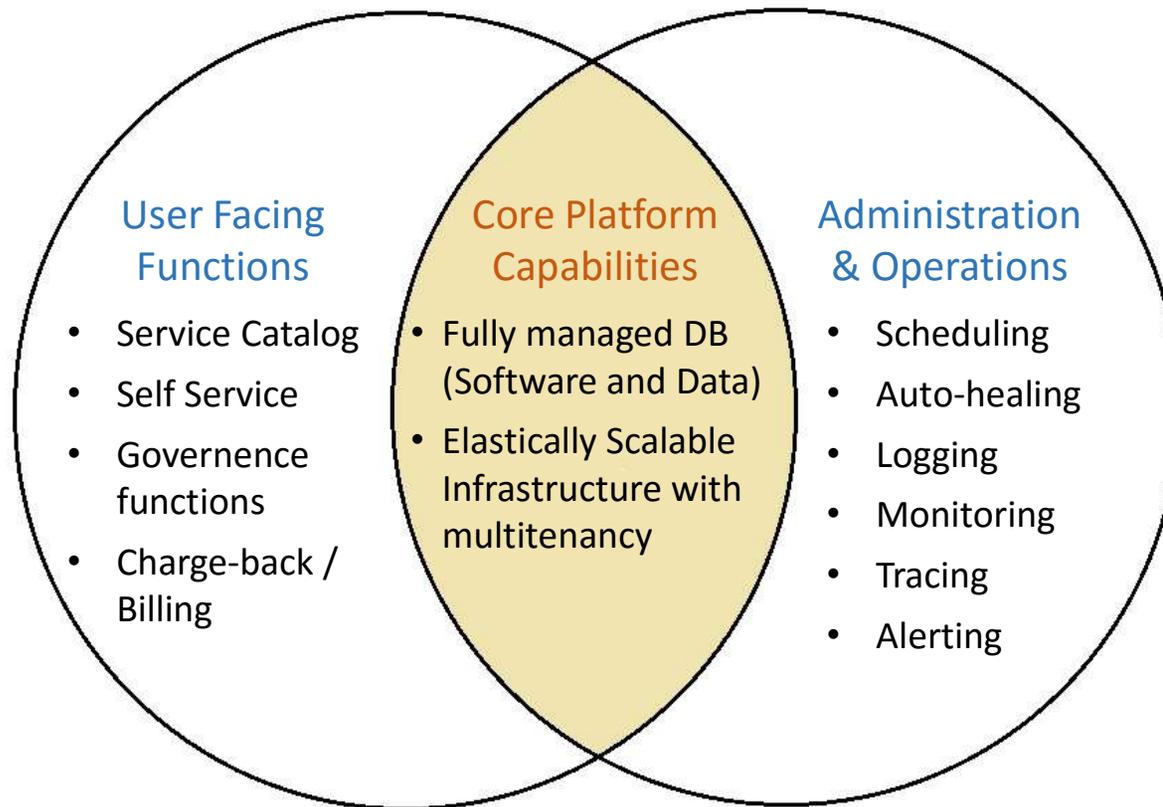


Data Services

Give up either control or speed



What you need in a dbPaaS?

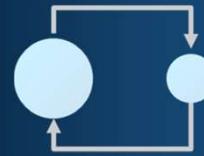


How Database Containerization Helps?

- Simpler Image Management
- Faster Booting Time



Rapid Deployment



Elastic Scalability

- Add or Remove Replicas
- Reschedule on bigger node (what about data?)

- Reduce Errors (Repeatability)
- Simpler HW & SW Lifecycle Operations



Administration Ease



Isolation & Density

- Better Hardware Utilization
- High performance (How about scaling storage?)

Building Infrastructure For DBaaS

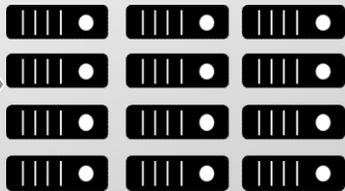
Traditional
SAN Storage



- ✓ Enterprise features
- ! Hardware centric
- ! Inefficient to scale
- ! Rigid to operate

Better Infrastructure Approach For Containerized Apps

DAS Storage
COTS HW



- ✓ Cost effective
- ! Limited availability
- ! Data management complexity
- ! Lacks system resiliency

Persistence In
Cloud Native



Container Aware
Software Based
Industry-standard HW
Elastic Scalability
Data Management

dbPaaS Stack Overview

Open Service Broker API



Logging, Monitoring, Tracing and Alerting



Core Platform

Administration

Thank You!

- While you're here...
 - Visit us at {code} booth #P5
- To know more about the {code} team,
 - Visit <https://thecodeteam.com>

