DEPLOYING A CONTAINER-NATIVE DATABASE IN OPENSHEET

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AGENDA

+ About NuoDB
+ Deploying Traditional Databases in Containers
+ Container-Native Database Deployment
+ Live Demo
NuoDB combines the **scale-out simplicity, elasticity, and continuous availability** that cloud- and container-based applications require with the **transactional consistency and durability** that databases of record demand.
TRADITIONAL DATABASES WERE NOT BUILT FOR CONTAINERS

Postgres-based crunchy data container solution

Crunchy Postgres primary and replica databases
DISTRIBUTED DATABASE

+ NuoDB is an inherently distributed database
  - Distributed multi-process
  - Scale out
  - Single logical database
+ Built-in data replication
  - Automatic HA
  - Automatic DR
  - Fully Active-Active
WHAT ABOUT THE DATABASE?

DB Outside OpenShift

Data Cache + DB Outside OpenShift

DB In Container
ACTIVE-ACTIVE, MULTI-AZ DEPLOYMENT

**AVAILABILITY ZONE 1**
- Application: App
- SQL Query Processing: TE
- Data Durability: SM
- Cloud Native Storage

**AVAILABILITY ZONE 2**
- Application: App
- SQL Query Processing: TE
- Data Durability: SM
- Cloud Native Storage

**AVAILABILITY ZONE 3**
- Application: App
- SQL Query Processing: TE
- Data Durability: SM
- Cloud Native Storage
DEMO

+ NuoDB deployed in single AZ
+ Deploy Ticket Monster
+ Deploy NuoDB to second AZ
+ Scaling for Performance
+ Fault Tolerance - Admin, Storage Manager, Transaction Engines
THANK YOU!
VISIT NuoDB AT BOOTH #731!

+ Learn more at www.nuodb.com/openshift

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