



Couchbase Capella

A Faster, Easier, and More
Flexible DBaaS



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Principal Solutions Architect, Couchbase

- 15 years in as Developer, Architect and Product Lead
- Couchbase Consultant for 6 years

Customers Tell Us: Application Needs Have Changed



Deliver Great Experiences

- Personalized & responsive
- Anywhere & everywhere
- Real time info & inventory
- Ensuring dependable transactions

Develop Efficiently

- Simplify & accelerate development
- Tap my skills (SDKs & SQL)
- Support best practices
- Avoid data sprawl

Deploy Effectively

- Support hybrid clouds, Edge, 5G
- 100% uptime & global scale
- Flexible management options
- Cost effective

This has had a massive effect on the requirements of databases

Why Do Customers Need Help Now?



Performance

Databases are failing modern demands



Flexibility

Significantly improve agility



Mobile/IoT

Deliver incredible experiences



Cloud Cost

Drive down cloud TCO

Industry Leaders and Small Teams too



High performance
caching for social
network

10M+
requests / second

800M+
users



City-at-sea experience via
IoT & edge-based mobile
devices

15k
mobile sensors per voyage

100's M
operations per/day



Less than 20
employees. Cut TCO
in half with Capella.

3->1
3 products to Capella

2000%
query speed gain

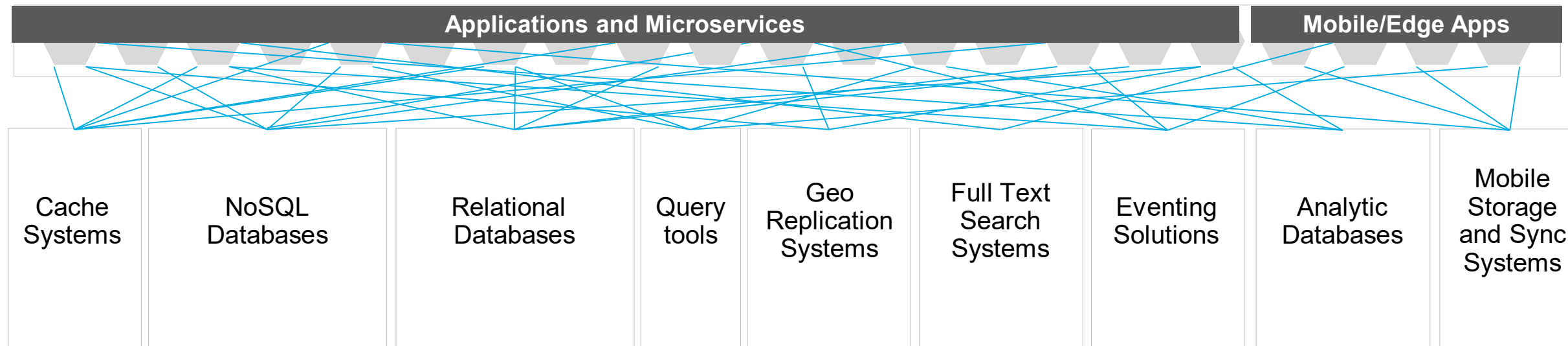


Built rescue app for
the world's largest
regatta sailing race

100%
reliability for mobile apps

90%
reduction in time for
rescues

Reality: Data Sprawl & Management Challenges



Different Management and Security Systems

Separate platform with multiple interfaces

1. Independent deployment and management
2. Different data model and programming interfaces
3. Integration between multiple products
4. Support tickets with different vendors

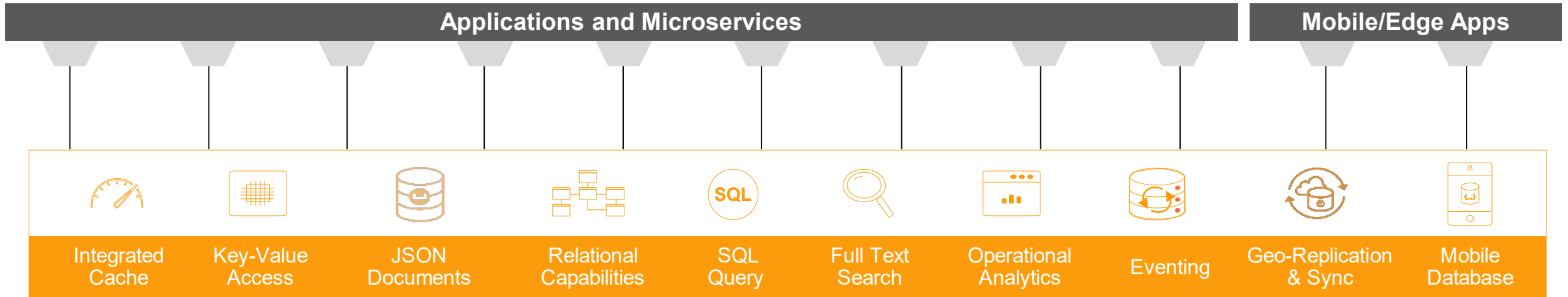
Per product factors (Financial, time, & effort)

1. License & agreement
 - Sourcing for renewals
 - Legal for agreements
2. Training
 - Developers
 - Operations
3. Support
4. Build API or connector to database
5. Purchase infrastructure

Costs

- Infrastructure
- Licenses
- Integration
- Training
- Operational
- Support costs

Innovate Faster & Spend Less



- Faster release cycles
- Less duplication
- Lower costs

Familiar Relational Capabilities like SQL++



Relational SQL

```
SELECT ac.industry,  
SUM(CASE WHEN a.activitytype = 'Task'  
  THEN 1 ELSE 0 END ) task,  
SUM(CASE WHEN a.activitytype = 'Appointment'  
  THEN 1 ELSE 0 END ) appts  
FROM crm.activity a  
  INNER JOIN crm.account ac  
    ON (a.accid = ac.id)  
WHERE a.startdate BETWEEN '2018-10-01'  
      AND '2018-12-31'  
GROUP BY ac.industry
```

Couchbase SQL++

```
SELECT ac.industry,  
SUM(CASE WHEN a.activitytype = 'Task'  
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```

- Known SQL syntax
- Supporting
 - SQL Transactions
 - ANSI standards
 - JOINS
 - Sub-queries
 - Nested objects
 - Arrays
- User-Defined Functions
- Cost-based optimization
- For Query & Analytics

“SQL++ was so much easier for our teams. All of our critical microservice applications have been moved to Couchbase.”

Wayne Chandler
Data Architect
Microlise

Why Couchbase on AWS?



Get the power of Couchbase combined with the best of AWS

- **Value:** Unmatched versatility, performance, scalability, and financial value
- **Available on AWS:** Capella, Server, & Mobile
- **Capella incorporates 20+ AWS services:** Architected with AWS best practices
- **Purchasing:** Use AWS Marketplace Private Offers and retire your existing EDP or PPA commitments

Couchbase AWS Program Participation



- Marketplace Seller
- AWS Outposts Ready
- Data & Analytics Software Competency

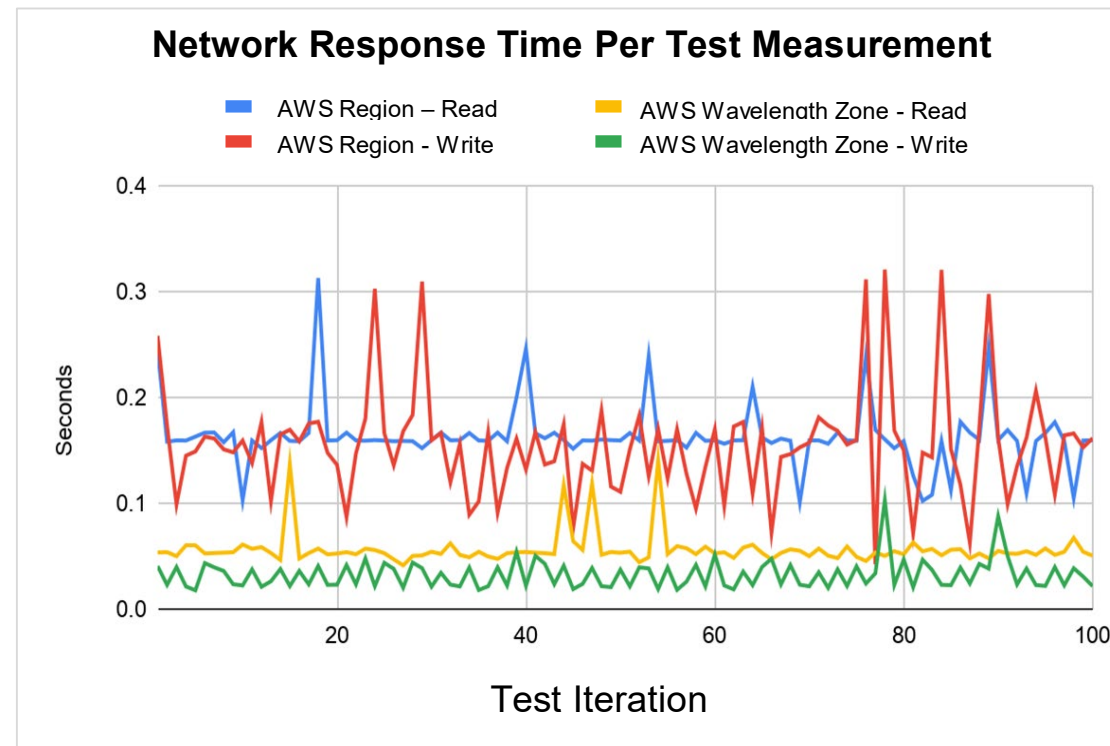
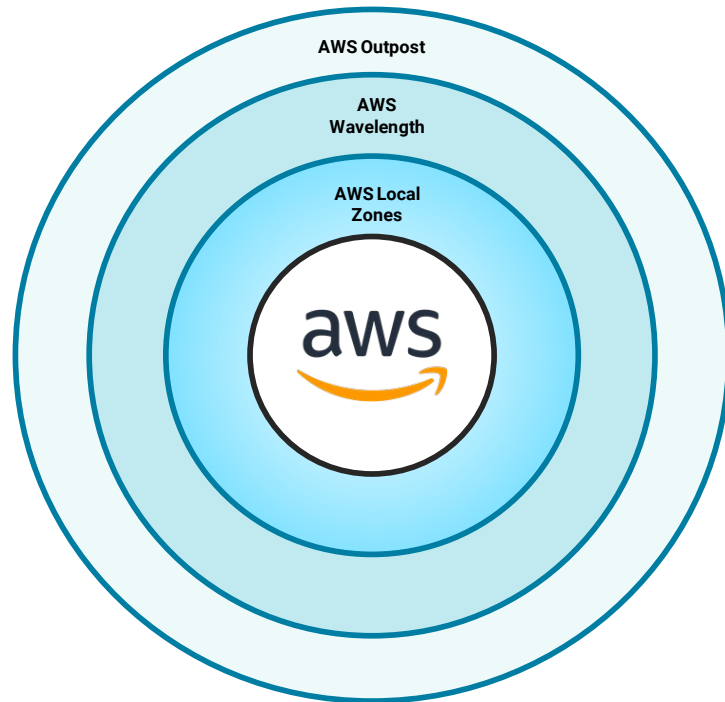
- Advanced Technology Partner
- Public Sector Program
- AWS Marketplace Seller
- Data and Analytics Competency
- AWS Workload Migration Program (WMP)
- AWS Outposts Service Ready
- AWS Local Zones (Qualified)
- AWS Wavelength (Qualified)

Couchbase to the Edge with AWS



AWS Region vs AWS Wavelength Zone: Latency comparison, testing 1kb payload transfer, 100 times

AWS Edge Service Ecosystem

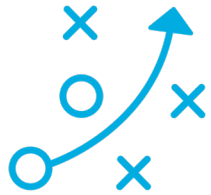


Read
67%

Decreased Latency

Write
82%

Couchbase Advantages...



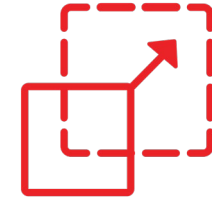
Develop Faster

- SQL++ for JSON
- Multimodel capabilities
- Flexible documents & dynamic data structures



Deploy Flexibly

- Automated cloud DBaaS
- Wherever data is needed
- Isolate & optimize workloads



Perform at Scale

- Memory first architecture
- Horizontal scaling
- High availability and reliability

Try Couchbase for Free



Capella Free Trial

Couchbase Playground

THANK YOU

