Next Generation Architectures Unlock the Power of Your Data

Dr Mohammed Haji
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Couchbase – Company Background

Mission: To be the platform that accelerates application innovation

Our Investors

ACCEL PARTNERS

Mayfield

NORTH BRIDGE
venture partners

SORENSON CAPITAL

ADAMS STREET PARTNERS

WESTSUMMIT CAPITAL

ignition

Our Product

- The enterprise-class cloud-native distributed database, combining the best of NoSQL with the power and familiarity of SQL. There is NoEQUAL

- Subscription-based enterprise software built on open source foundation
- DBaaS offering launched in June 2020

Our Team

- **Created**: 2011
- **Headquarters**: Santa Clara, CA
- **Locations**: San Francisco, New York, London, Manchester, Bangalore, France, Germany, Israel, Australia
- **Leadership Team**: Extensive enterprise experience
- **Headcount**: ~530

Awards

database
TRENDS AND APPLICATIONS
READERS' CHOICE AWARDS 2019

FStech awards 2020 WINNER

Deloitte.
Technology Fast
500

THE CHANNEL CO.
CRN
PARTNER PROGRAM GUIDE
WINNER 2019

Top Rated 2020

InfoWorld.com
★ TEST CENTER ★
EDITOR'S CHOICE

CHALLENGES for agencies, personnel on border control duty and private players

Interoperability

Legal

Security

Anywhere
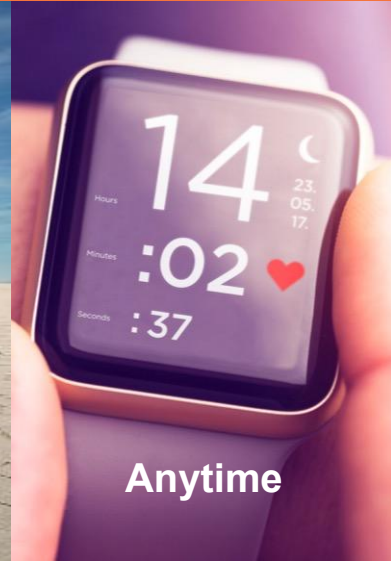
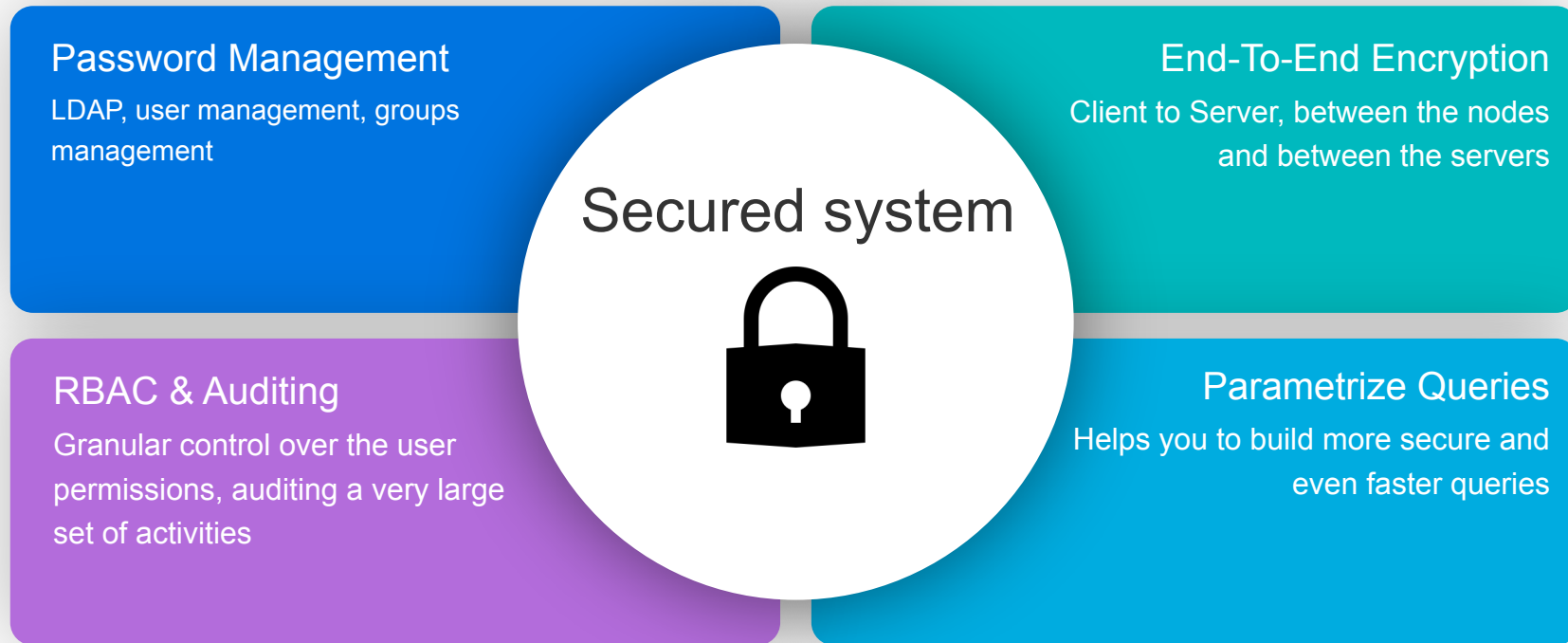**Anytime**

Unified Architecture Platform

Security

Security

Password Management
LDAP, user management, groups management

End-To-End Encryption
Client to Server, between the nodes and between the servers

RBAC & Auditing
Granular control over the user permissions, auditing a very large set of activities

Parametrize Queries
Helps you to build more secure and even faster queries

Secured system
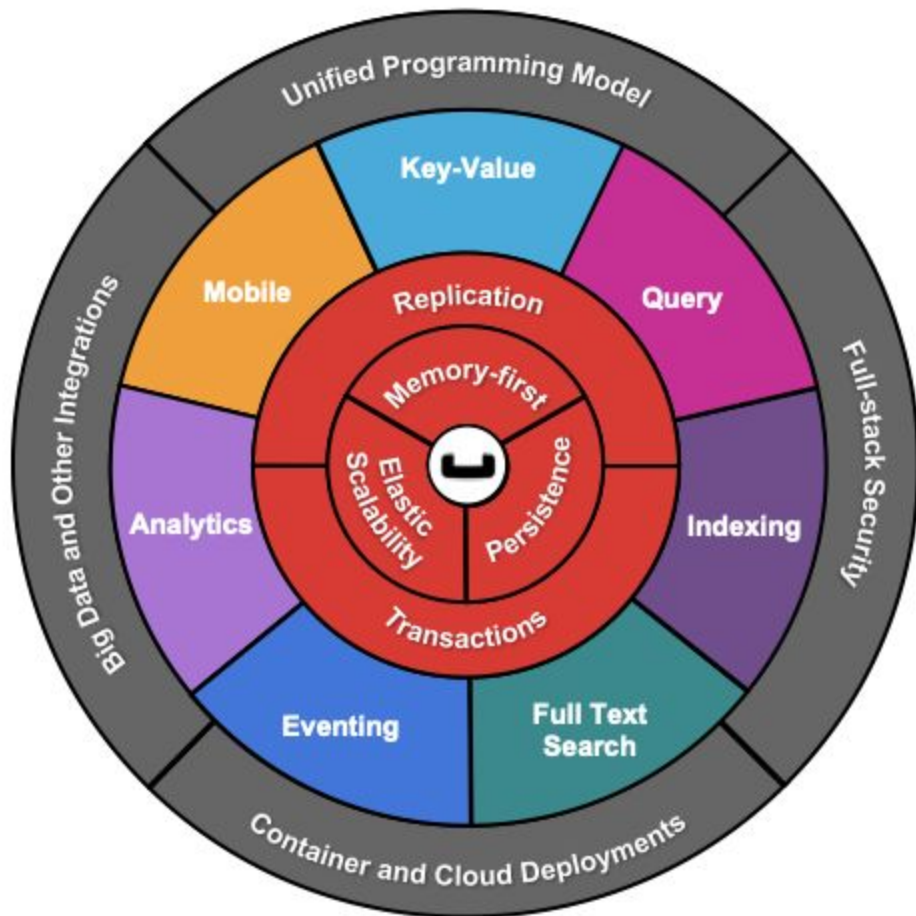
Over the wire Encryption - everywhere

Clients

Couchbase Cluster

Internet

Cluster

SSL Transport + X509 Auth

Node-to-Node Encryption

XDCR Encryption
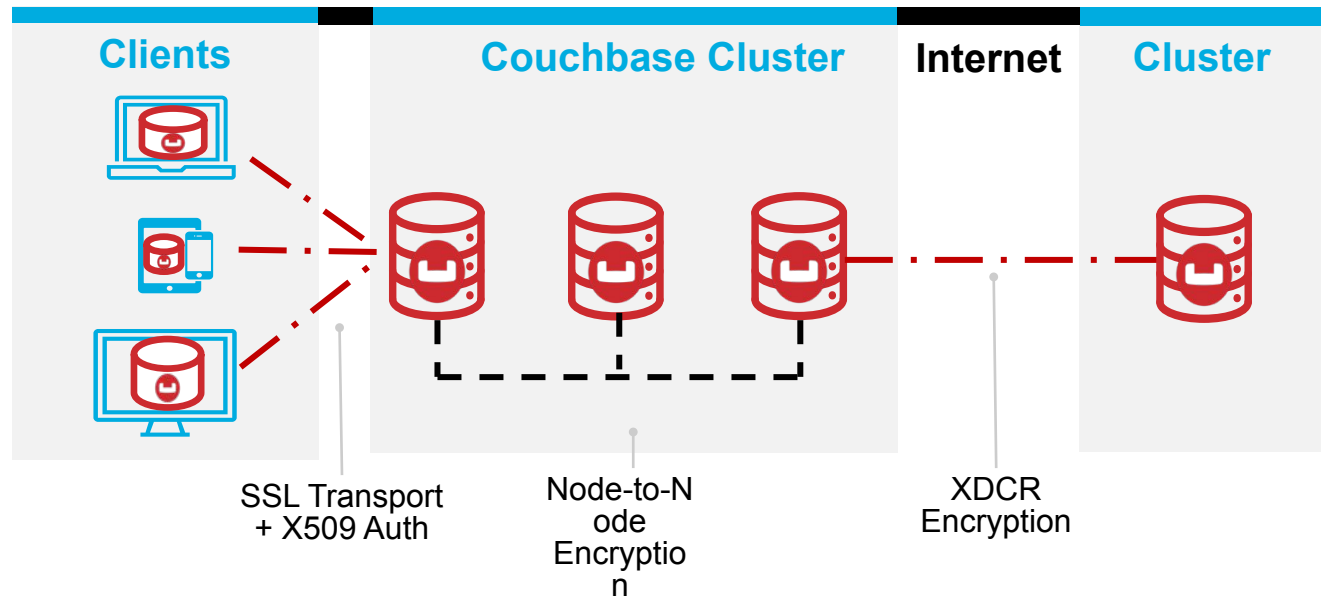
Scalability & Replication

Adding nodes

Adding nodes

READ/WRITE/UPDATE
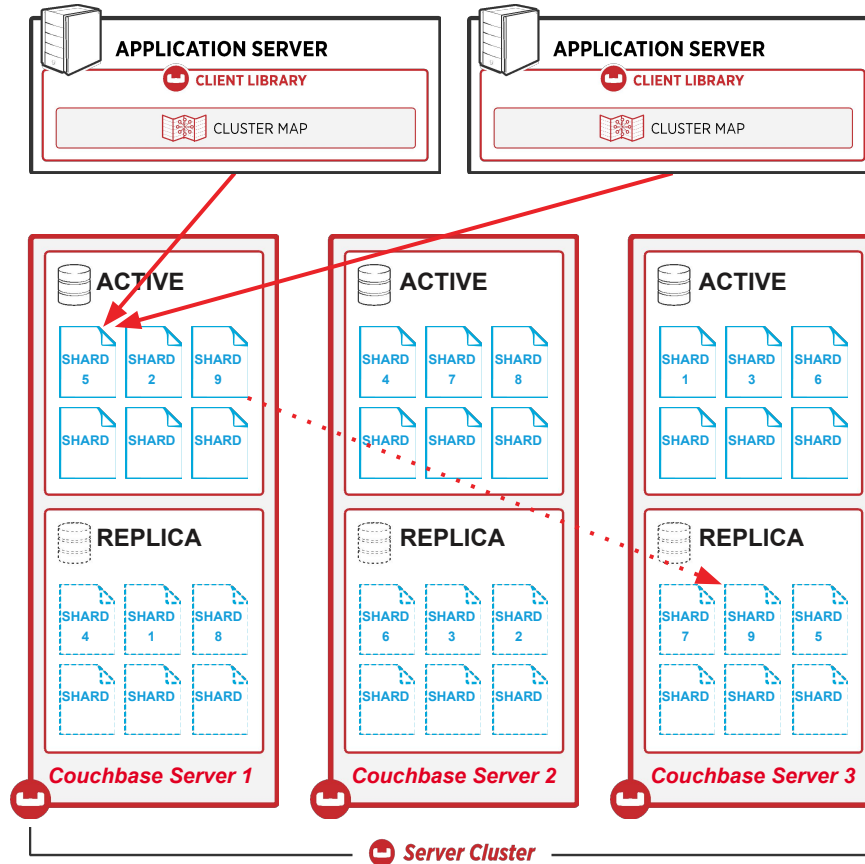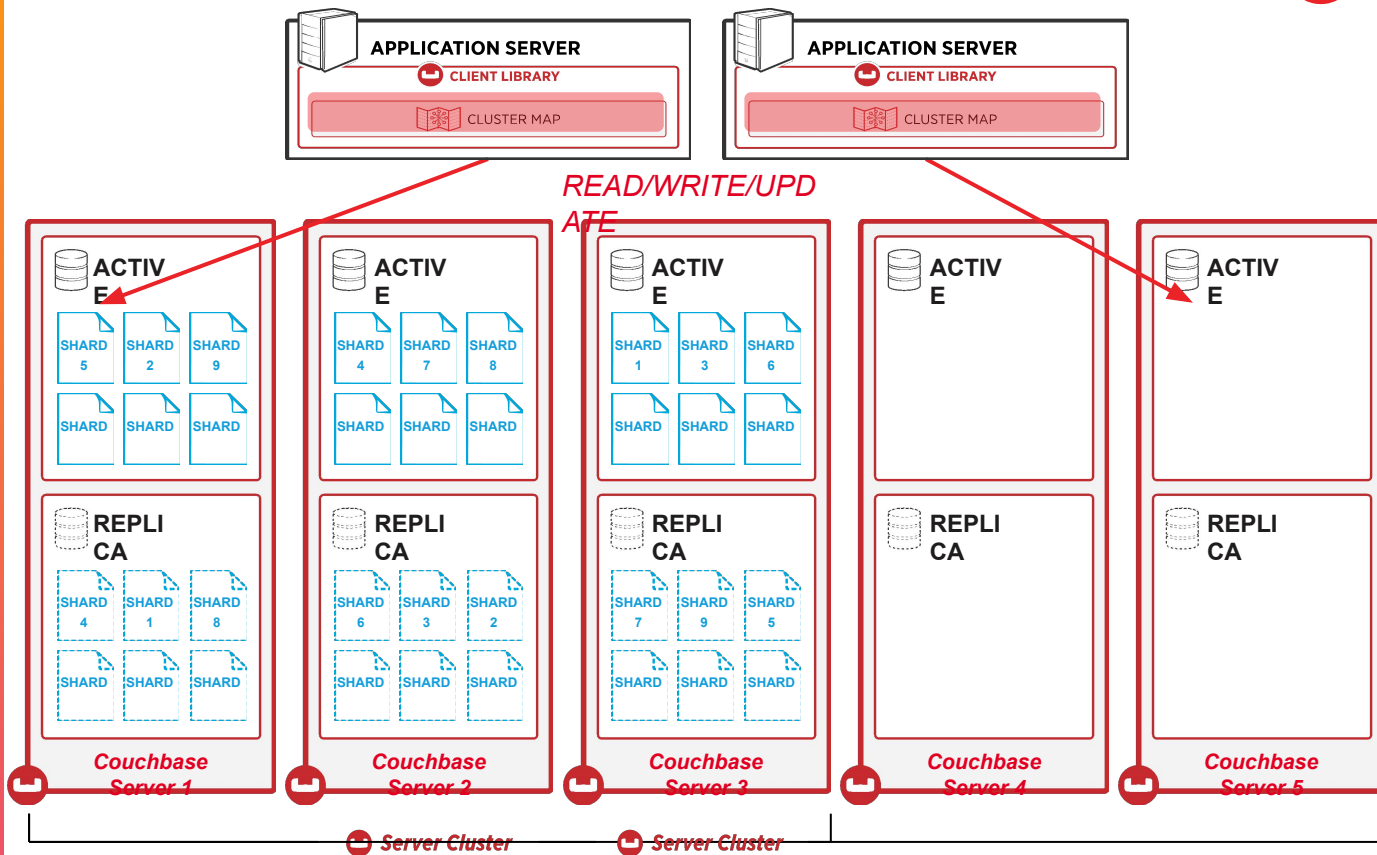
Failing over a node
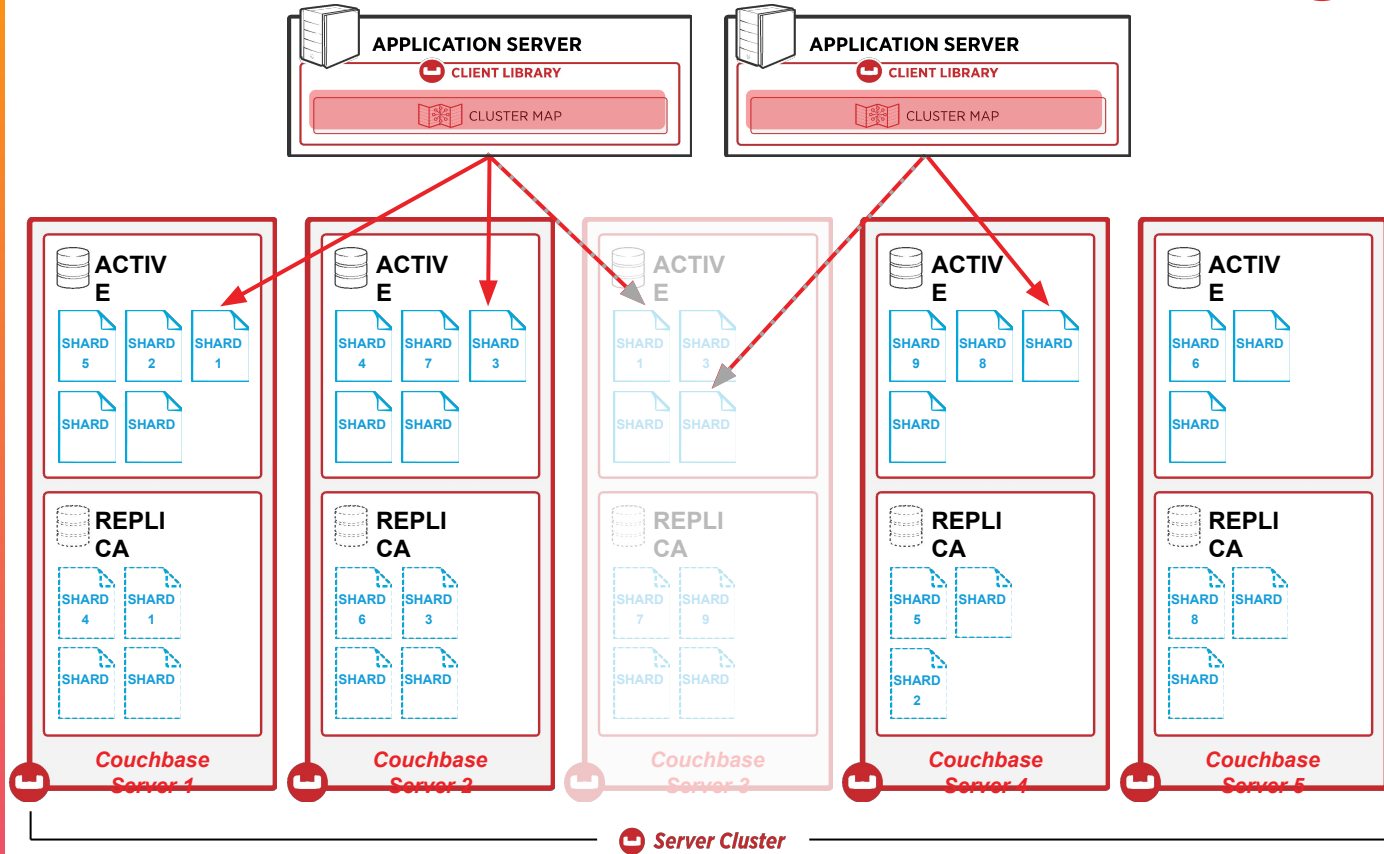
Cross Data Cenre Replication (XDCR)

XDCR

XDCR

XDCR

Hybrid Cloud or Global Active-Active

On-premises

Private Cloud

Amazon Web Services

Microsoft Azure

Google Cloud Platform

Unified Programming Model
Big Data and SQL Integrations
Full-stack Security
Container and Cloud Deployments

Eventing
Mobile
Replication
Query
Memory-first
Persistence
Elastic Scalability
Key Value
Analytics
Replication
Indexing
Full-Text Search

aws
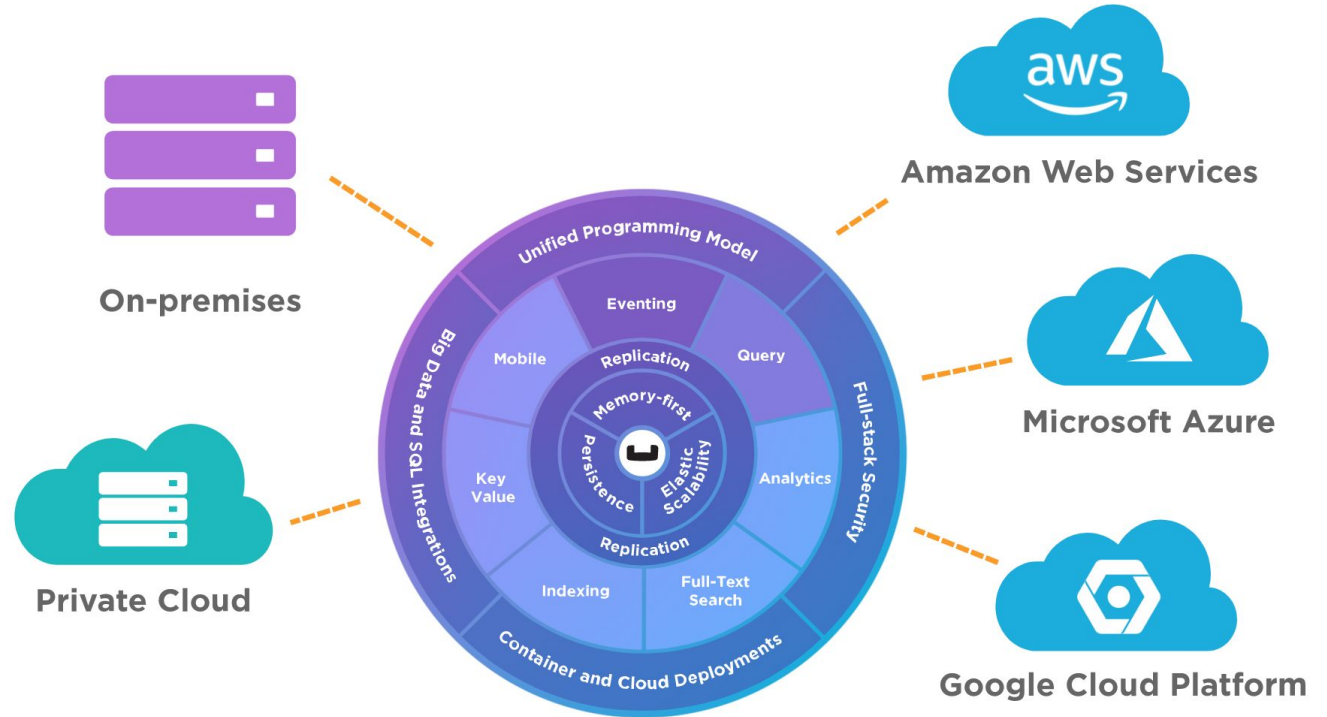
Multi Dimensional Scaling

Multidimensional Scaling in Production

Global Index | Query | Data | Full Text | Analytics | Eventing

Cluster Manager

NODE 1

NODE 13
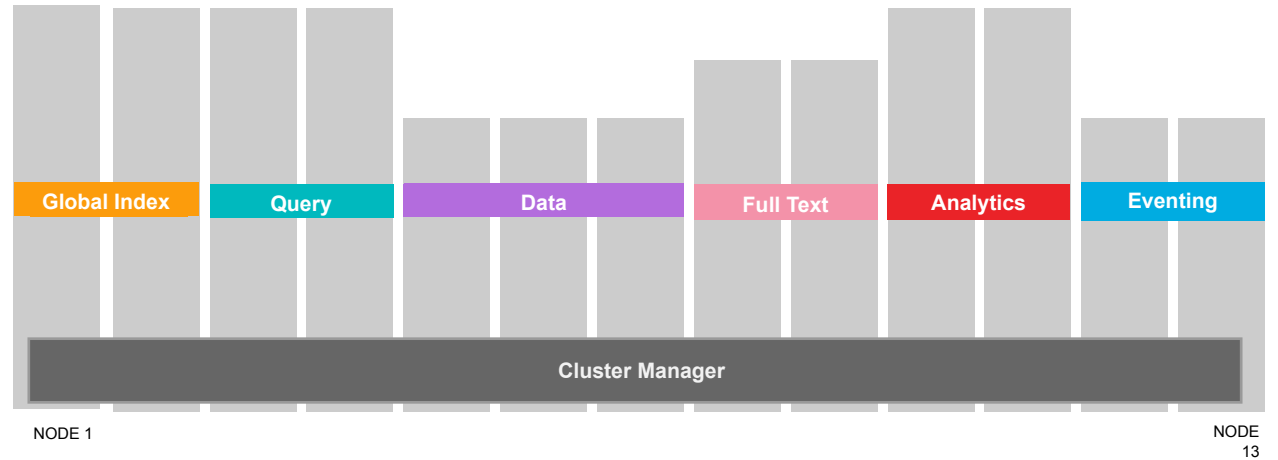
Seamless API's

N1QL – Developer Friendly

- Non-first Normal Form Query Language

- It is based on ANSI 92 SQL

- Its query engine is optimized for modern, highly parallel multi-core execution

Power of SQL **+** **Flexibility of JSON**
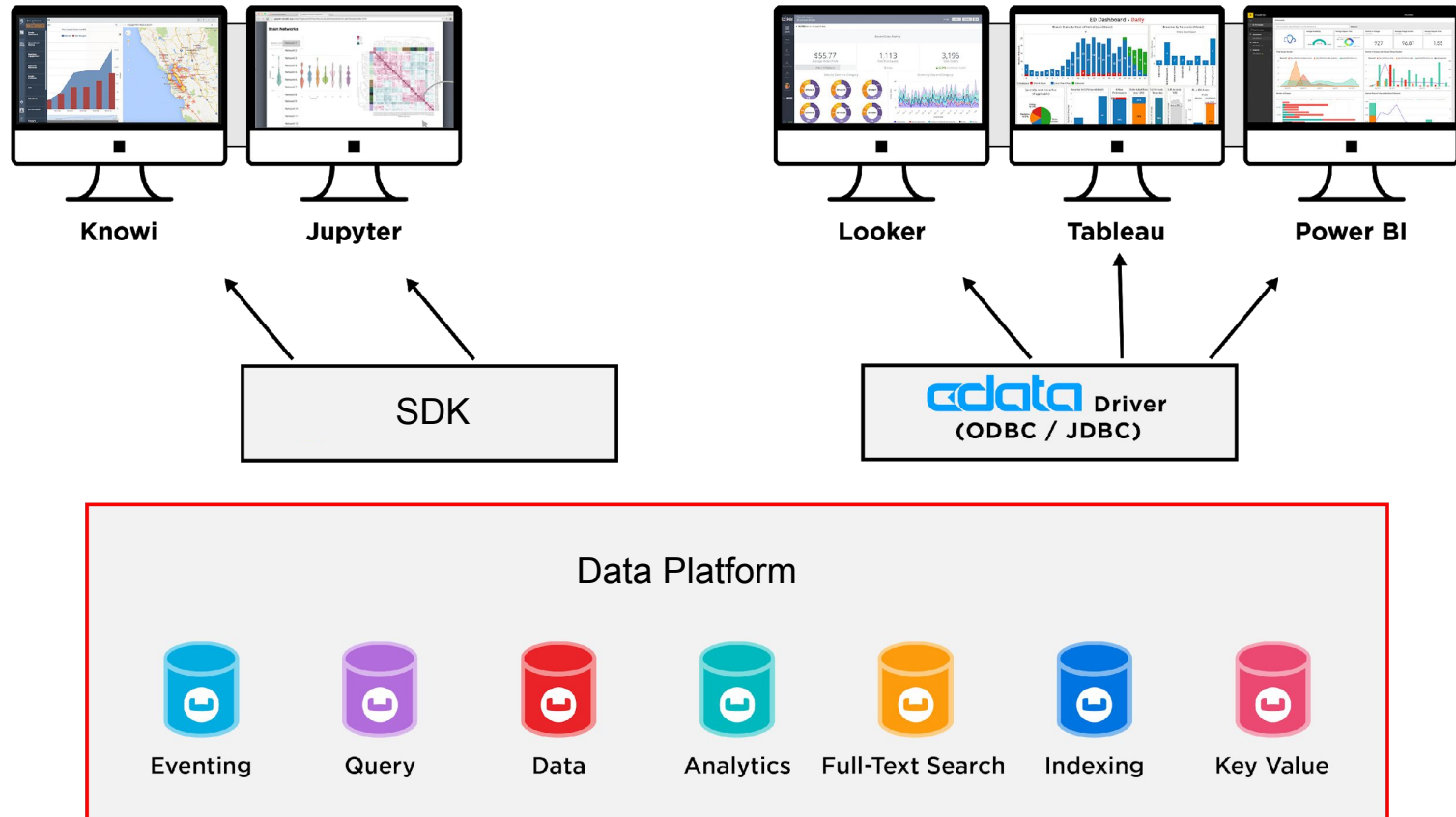
```
1   SELECT name, DATE_PART_STR(published,"year"), as published
2   FROM books
3   WHERE author = "Alastair Reynolds"
4   ORDER BY published
```

SDK

cdata Driver
(ODBC / JDBC)

Data Platform

Eventing   Query   Data   Analytics   Full-Text Search   Indexing   Key Value

Mobile, IoT & Edge

IoT & Edge

Client Tier | **Internet** | **Middle Tier** | **Intranet** | **Data Tier**

Web Client

Mobile Client

Embedded System

COUCHBASE LITE

Web Services

SYNC GATEWAY

COUCHBASE SERVER

1 — Local Storage
Full Database AES-256 Encryption

2 — Secure Transport Over Wire

3 — Pluggable Authentication and Role-Based Access Control

2 — Secure Transport Over Wire

4 — Role-Based Access Control and Secure Data Storage
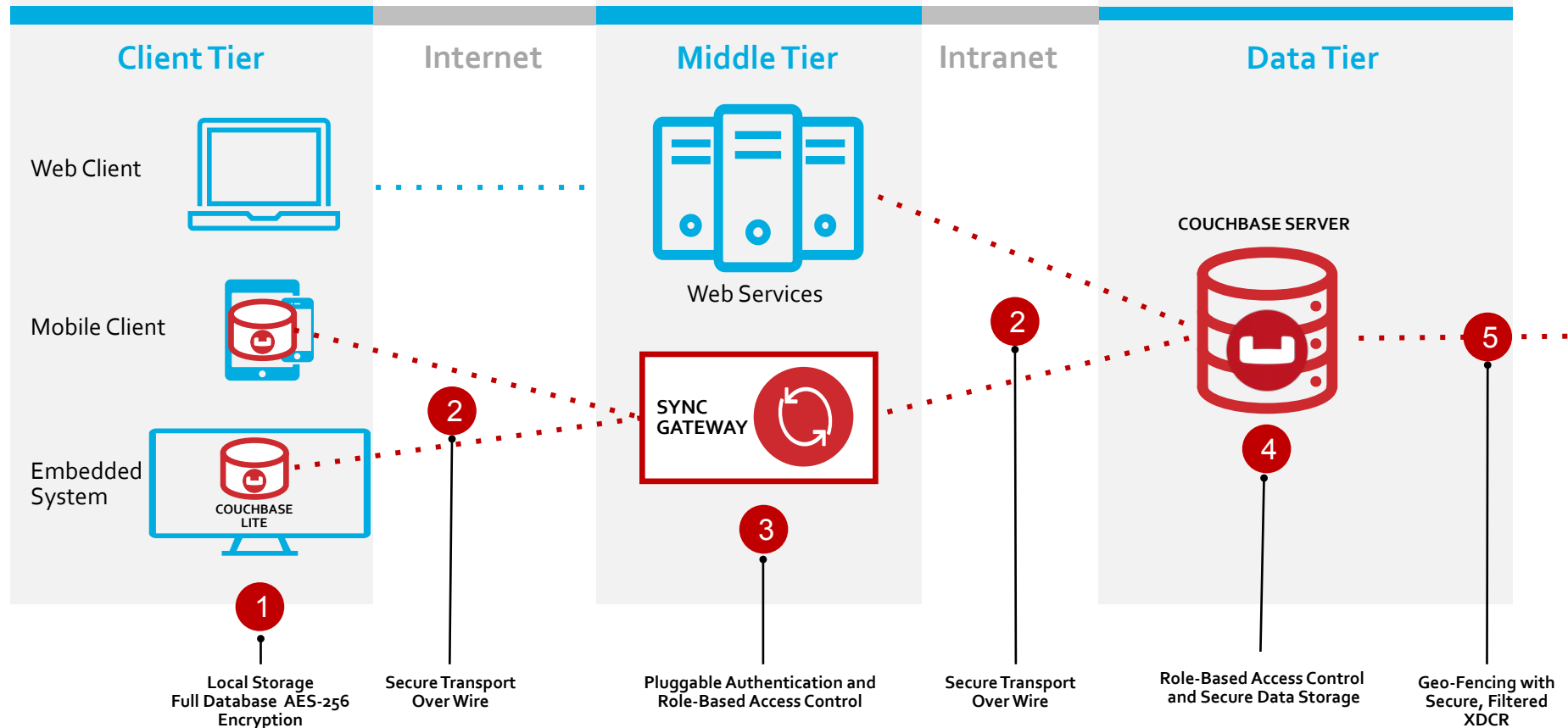
5 — Geo-Fencing with Secure, Filtered XDCR

Managed Services - DBaaS

Couchbase Cloud – A Fully Managed Database-as-a-Service

Fully Managed

- Size, deploy, operate, upgrade and scale your Couchbase environment
- Comprehensive monitoring and alerting
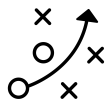- Public APIs for 3rd party tool integration

Automated

- Streamlined onboarding and operational experience with built-in best practices
- Manage and operate with a few clicks
- Available on-demand

Secure

- Data secured and isolated in customer's public cloud environment
- Encrypted at rest and in flight
- RBAC with MFA for key operations

Flexible

- Single to multi-node deployments
- Spans caching, source of truth and system of records use cases
- Deploy in cloud of your choice

Highly Available

- Fault-tolerant and self-healing
- Operated with built-in best practices
- Multi-region and on-premise to cloud replication

Cloud Economics

- Hourly pricing
- Volume discounts for pre-paid credits
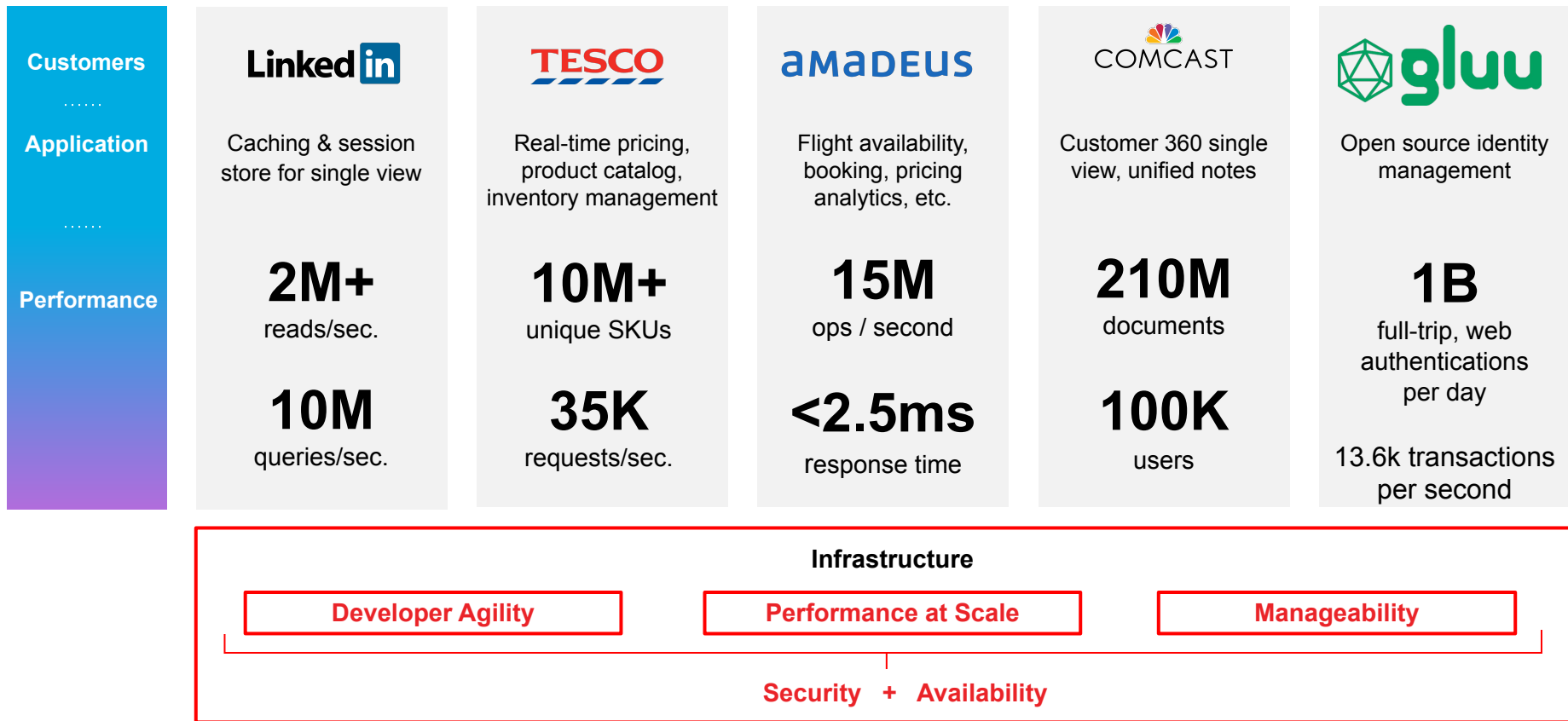- Leverage reserved pricing from your CSP

Customer Successes

Couchbase Behind Today's Business-Critical Applications

Customers ...... Application ...... Performance	**Linked in**	**TESCO**	**amaDEUS**	**COMCAST**	**gluu**
	Caching & session store for single view	Real-time pricing, product catalog, inventory management	Flight availability, booking, pricing analytics, etc.	Customer 360 single view, unified notes	Open source identity management
	2M+ reads/sec.	**10M+** unique SKUs	**15M** ops / second	**210M** documents	**1B** full-trip, web authentications per day
	10M queries/sec.	**35K** requests/sec.	**<2.5ms** response time	**100K** users	13.6k transactions per second

Infrastructure

Developer Agility	**Performance at Scale**	**Manageability**

Security + Availability

THANK YOU

Couchbase | NoEQUAL