

*Our mission is to help people see
data in new ways, discover insights, unlock
endless possibilities.*





使用混合雲策略架構企業資料平台

Modernize Your Data Platform - A Hybrid Approach

Choosing the right architecture and platform

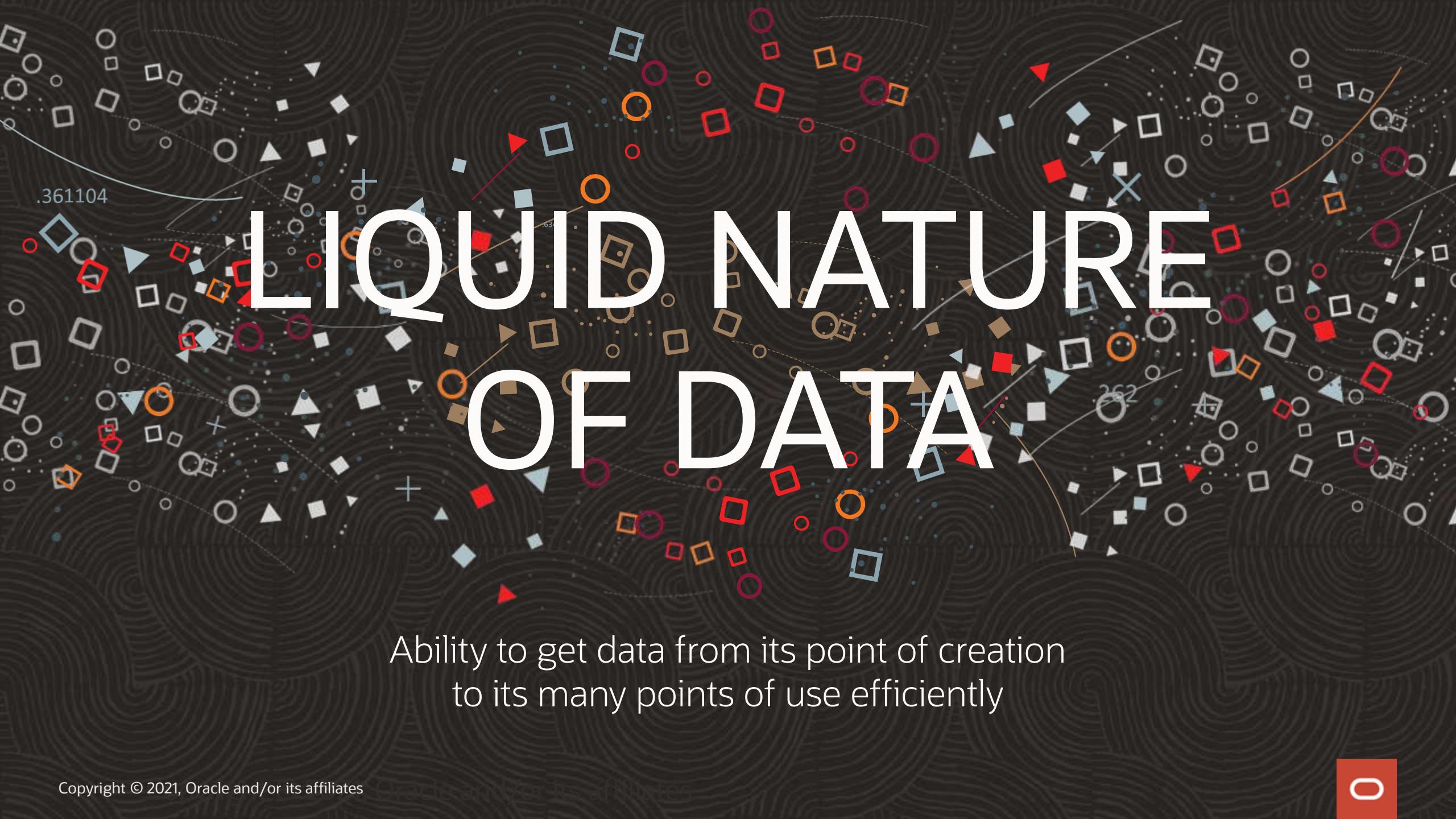
—
Matthew Huang

Principal Solution Engineer
Hybrid Cloud Systems, Oracle Taiwan

Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

LIQUID NATURE OF DATA

The background of the slide features a dark, textured surface with concentric, wavy lines resembling ripples in water. Overlaid on this are numerous small, colorful geometric shapes (circles, squares, triangles, diamonds) in various colors (white, light blue, orange, red, purple, brown). Some of these shapes are connected by thin, light-colored lines, suggesting a network or a flow of data. There are also a few numerical values scattered across the background: ".361104" in the upper left, ".63" in the upper center, and "262" in the middle right.

Ability to get data from its point of creation
to its many points of use efficiently

LIQUID NATURE OF DATA



Build scalable
data-driven apps



Derive value
from data

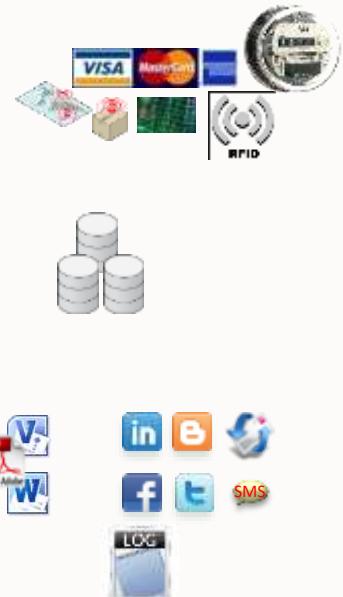


Leverage modern
data infrastructure

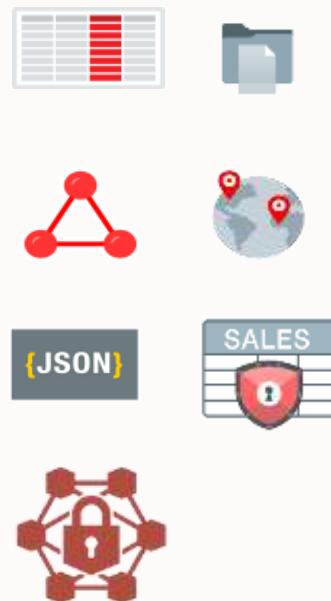
Modern Data Management

Architecture and Platform Considerations

Data Sources



Data Types



Developers



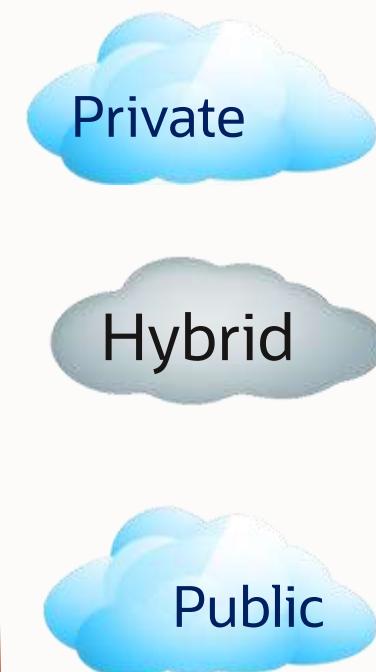
Workloads



Data Access

REST API
SQL API
Python, node.js drivers

Deployment



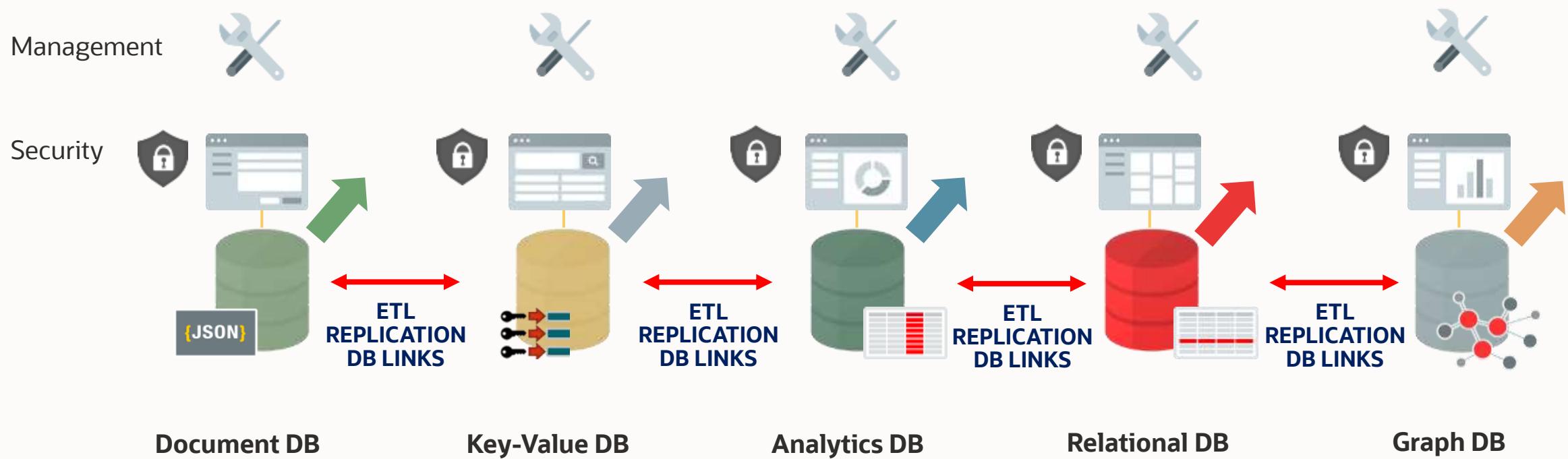
Security

Resilience and availability

Manageability

Data Driven Apps Can be Complex to Develop, Deploy and Manage

- Developer fragmentation due to proprietary APIs
- Data consistency fragmentation as change propagation is difficult
- Fragmented security and management across databases



Fragmentation vs. Convergence

Single Purpose versus Multiple Purpose devices



Single Model vs Multi-Model Database

Fragmentation vs Convergence



Today's Enterprise Architectures are Generic in Nature.
Complex, Expensive, Slow & Unreliable.



Exact Cloud Equivalents Should Need Arise

Cloud insurance enables you to move forward today with confidence



Database Tier



Application Tier



Big Data and Analytics

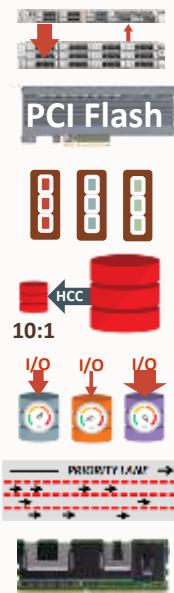


Data Protection



Oracle Exadata: The Best Platform for the Oracle Database

A converged database on a single platform dramatically reduces complexity and cost



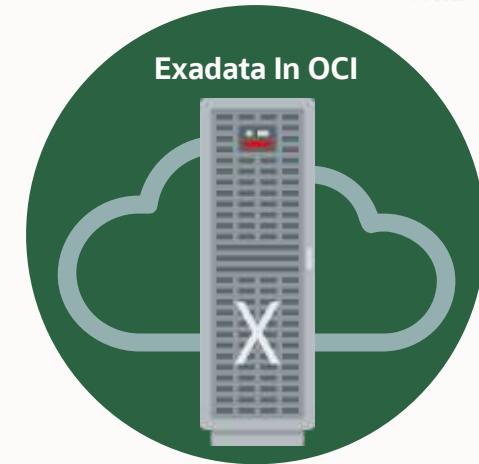
- Uniquely optimized for multi-model applications and analytics
- Built-in ML/AI,
 - Run ML algorithms inside the database
 - AI automated performance management
- Extreme performance, availability and security
- Scale out design
- Perfect platform for database consolidation
- Available on premise, Cloud@Customer and Oracle public cloud

Exadata in Oracle Cloud

Transform using the most cost-optimized and easiest to use Exadata ever



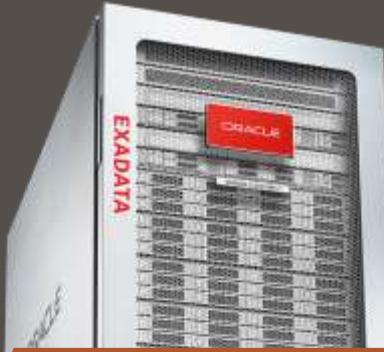
- Same extreme performance, security, availability and scalability as on-premises
 - Same Exadata Hardware
- Standardize with converged Oracle Database
 - 100% compatible with on-premises
- Cloud economics, automation, and operations
- In Oracle Public Cloud or in your Data Center
- Co-managed or fully autonomous
 - Exadata Database
 - Autonomous Database



Exadata Cloud@Customer

Exadata – Choice of deployment

On-Premises Traditional	Cloud at Customer	Public Cloud
Exadata Database Machine 	Exadata Cloud@Customer 	Exadata Cloud Service 
Customer Data Center Purchased Customer Managed	Customer Data Center Subscription Oracle Managed	Oracle Cloud Subscription Oracle Managed



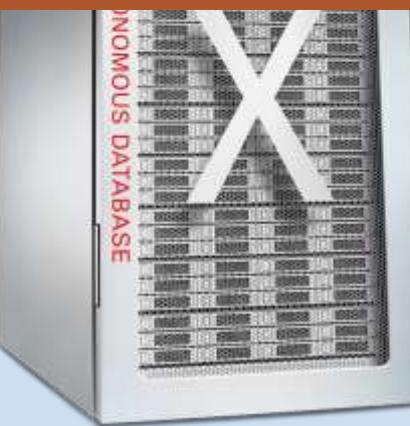
256% return
on investment
(5-year period)

73% less
unplanned
downtime

IDC Research Confirms Exadata Cloud@Customer Business Value

47% reduced
total cost of
operations

40% faster
time-to-
market



*... We moved on from day-to-day
troubleshooting to more strategic projects.*

Oracle Customer

🔗 [IDC White Paper](#)

🔗 [IDC Business Value Snapshot](#)



Exadata Platform Global Fortune 100 Adoption

Exadata Platform **87%**

Exadata **86%**
Exadata Cloud **44%**



Fortune-100 – August 2021 update

A Modern Data Platform

Development Services



Node.js, Python, .NET, Java, PHP, Ruby, PL/SQL, C, C++, Perl, Go, EBR, REST Services, **Micro services**, APEX, SODA, Docker

Platform Services



Cloud to On-Prem, Clustering, Sharding, **Security**, High Availability, **Zero Data Loss**, Administration

Analytical Services



SQL, R, Columnar In-Memory, Advanced Analytics, **Machine Learning**, AI

Data Support



Relational, JSON, XML, **Spatial**, Graph, RDF, **Text**, Binary, Object Stores, HDFS, Kafka, **NoSQL Stores**

Infrastructure Services



Public Cloud, Cloud at Customer, **Exadata**, BDA, ZDLRA



Next Generation Data Management Platform

Thank You

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