

HCL Software Innovation
to enable and accelerate
your digital transformation

November 2021



Technology for the new normal, today.

## **Content**

Defining Characteristics of a 21st Century Enterprise

Changing Role of Data in 21st Century Enterprise

21st Century IT Builds 21st Century Applications

Key Technical Elements

The HCL Software Portfolio

OneDB Database Vision and Strategy

**Product Overview and Direction** 

Competitive Standing

**Next Steps** 









# **Digital Transformation**

The 21<sup>st</sup> Century Enterprise



#### HCL

# Defining Characteristics of the 21st Century Enterprise

# **Experience Centric**



Contextual, unified experience for customers

#### **Outcome Based**



Business outcome focused (KPI, MBR, Etc.)

#### Agile & Lean



Optimized platform built on automation & dynamic rules engine

## Microservice Oriented



Consume "everything" as a service

# **Ecosystem Driven**



Extended enterprise of customers, suppliers, partners, employees

The 21CE offers a unified experience across different channels. It also uses the context of the usage and the channel to focus on customer experience.

The 21CE applies technology to transform its business model and deliver "outcomes" that cut across value chains.

To ensure a swift response to changing market conditions, a 21CE is optimized in processes and tools for fast maneuverability

Irrespective of the sector in which it operates, a 21CE will change its operating model and become "data-driven"

These are complex specialized networks wherein stakeholders up & down the value chain collaborate to extend the enterprise beyond traditional boundaries



# The Changing Role of Data in Enterprises



## 21<sup>st</sup> Century Enterprises use data as a competitive advantage. They use data as a strategic asset in becoming a more intelligent enterprise.

# Experience Centric



- ✓ The center of application development is no longer the ERP but touch-points in the customer journey
- ✓ IT needs to shift spend towards delivery of the ideal customer engagement

### **Outcome Based**



- ✓ Ability to measure and manage business aligned metrics in every IT process
- ✓ Ability to change the business models integrating different channels, processes, and systems

## Agile & Lean



✓ As IT moves towards systems of engagement, they need to deliver at the cost of consumer technologies — not through traditional cost cutting but using technologies efficiently

### **Data-Driven**

#### Service Oriented



- ✓ IT should enable consume "everything" as a service.
- ✓ Ability to "pay as you consume" and "integrating services" to orchestrate business outcomes enables agility and lower costs

### Ecosystem Driven



- ✓ IT should enable the integration of stakeholders seamlessly (E.g. partner, supplier, employee, consumer)
- ✓ Customer experience is being defined by consumer platforms – a new ecosystem



**Century Applications** 

# 21st Century IT Builds 21st Century Applications

21<sup>st</sup> Century applications require a different approach to architecture, development, and operations

Focus on delivering functionality to support processes



**Customer centricity leading the backend optimization with design thinking** 

Delivering to user requirements through SMEs acting as proxy



**Evolving an application from MVP by learning from the actual end-users** 

Long release cycles with major feature upgrades



Shorter lifecycles for applications – including shorter release cycles

Large monolithic applications that suite majority of users – focus on consolidation of applications



Smaller focused applications for different user segments – focus on differentiated, contextual, value-centric experiences

Different silo's – development, deployment, operations



Full stack engineering optimized across dev, deploy and ops



# Key Technical Elements of 21st Century Applications



## The HCL Software portfolio brings all these elements together:

STANDARDIZATION: technology stack, development practices, and operationalization

non-functional

✓ FOCUS ON BUSINESS VALUE: By moving technology concerns to HCL Software, developers can focus on the business problems and the use cases

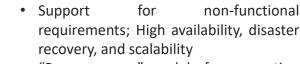
#### **APIs**



- To support different channels and customer experiences on the same back end
- To leverage existing IT assets and capabilities
- To participate in the modern ecosystem of application development up & down the value chain



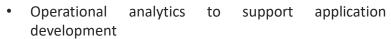
### Cloud



"Pay as you go" model of consumption of resources



## **Analytics Infused**



Support for going from MVP to full fledged application



## **DevOps**

- End to end agility in application lifecycle: dev, test, deployment
- · Automation for cost effective development and predictability



# **Operations Ready**



- Standardization of operations to support large number of small apps (e.g. new data governance policies)
- Support for self-service: discovery, provisioning, and troubleshooting







# Delivering on 21st Century Application Development



The focus on platforms, customer-centric applications, and rapid business model changes requires new delivery models



Lab Services



**HCL Now** 

HCL **\$**oFy

Innovation Team Model Shared Service Model Factory Development Models

✓ Integrating cloud-native products into 21<sup>st</sup> Century ecosystems by working with partners and end-customers to create data-driven solutions for new business models

- ✓ Dedicated, secure environments deployed and managed on your public cloud of choice.
- ✓ Enterprise—grade availability, unlimited scalability and flexibility built from the ground up as cloud—native.

Deploy HCL Software products to K8s with just a few clicks or single command. Enables deployment to any cloud – public, private, hybrid – in just minutes! SoFy solutions are portable across all Kubernetes environments, so you have complete freedom of choice.

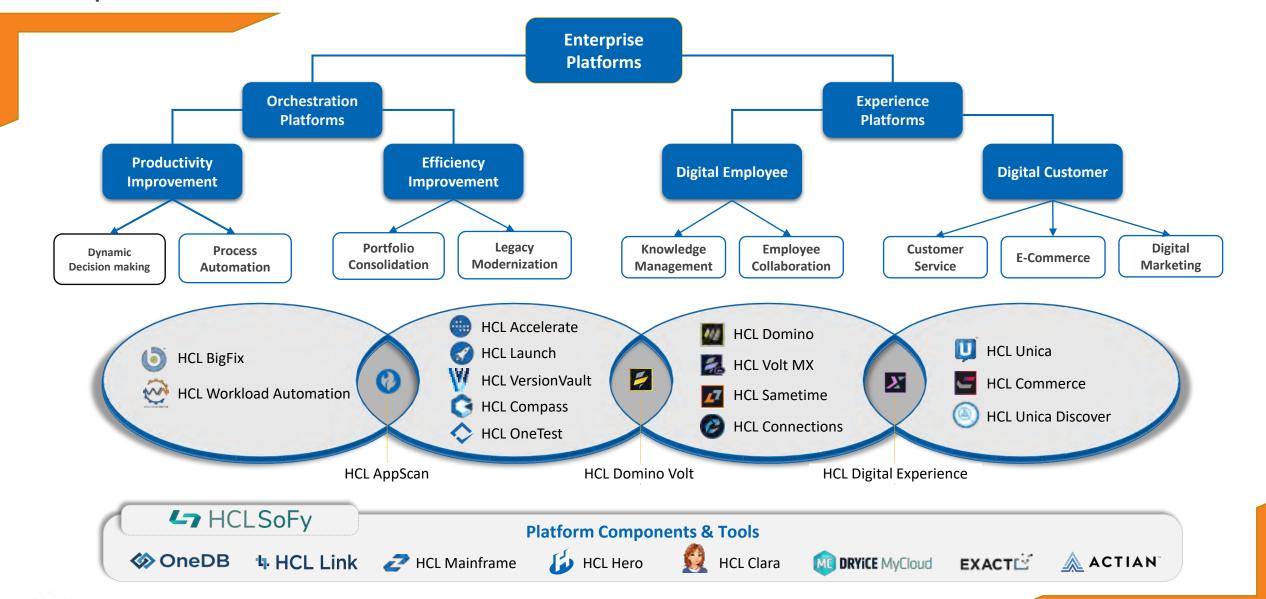
Collaboration & Co-Creation

**Governance & Efficiency** 



#### HCL

# Enterprise Platforms: The HCL Software Portfolio









## **Product Overview**

ABOUT HCL OneDB







# Be the best cloud-native database for HCL Software products and enterprise applications

## 1. The de facto cloud-native database for HCL Software products

When clients move their HCL applications into cloud-native

- High-availability, scalability, and versatility, the Kubernetes way
- Improved usability and management so lack of skills is not an inhibitor
- OneDB v2.0 supports Unica, Commerce, Workload Automation, Link, and Compass
- Solution Factory (SoFy) deploys OneDB for development and production
- 2021-2022: Continue until all HCL Products are supported by OneDB

## 2. Support platform modernization efforts - leading with our cloud-native capabilities

- For companies executing against a cloud first strategy, leading with the database when transitioning to the cloud or to cloud-native practices
- Perfect for new cloud-native application development or when modernizing legacy stacks



## The HCL OneDB Differentiator



High performance and reliability with cloud native advantage



## **Unmatched for Cloud-Native Solutions**

Deploy & scale on any/multi cloud, on-premise and embedded in apps. Database replication and scalability the Kubernetes way.



#### **Data Access**

Application developers have fast access to this data through, REST API, Mongo APIs, and SQL APIs.



#### Accelerate time-to-market

Build and deliver cloud native solutions faster and with more flexibility, to address critical business needs.



## **Multi-model Data** Management

Power workloads spanning multiple data types (document-store/JSON, SQL, timeseries, spatial) on a single data platform.



### **Hybrid Transactions**

Combine and use Time-series. Spatial, NoSQL, and SQL data together in the same query and database.



#### **Data Volume**

Ingest and store terabytes of data necessary for broad range of enterprise solutions — from edge to cloud.



### **Data Security**

Native encryption with all configurations. Data is secure at rest, and in motion.



## **Always-on Transactions**

Extremely high data availability, for planned and unplanned outages.



## Simple and cost effective

Easy to deploy and cost-effective to run. Small footprint, silent installer, selfmanaging.







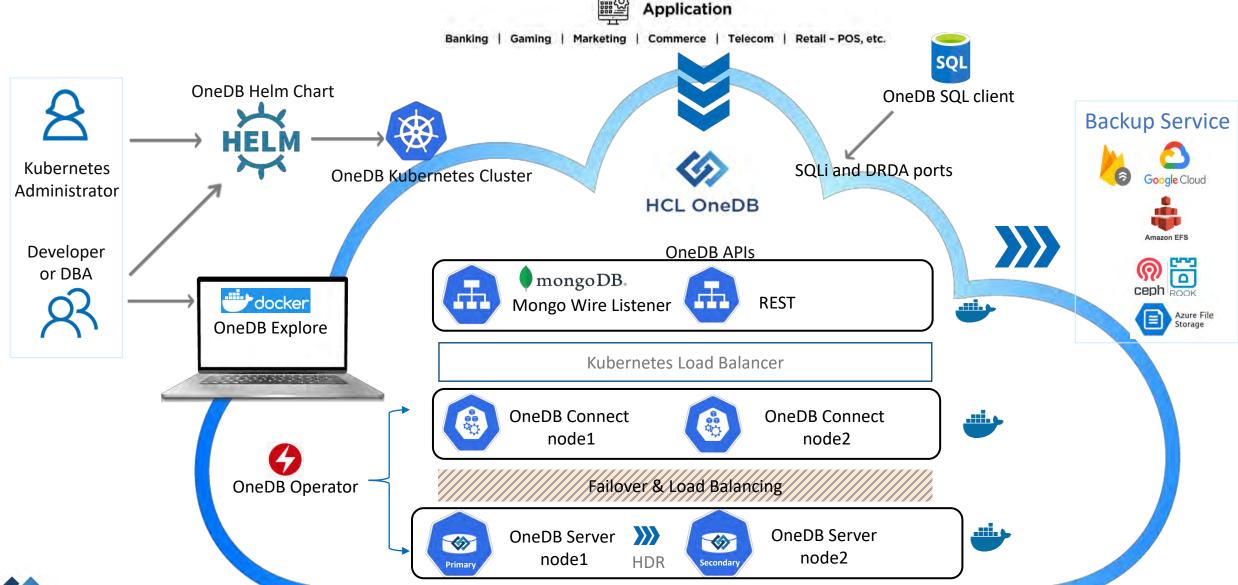
## Increased speed, agility and lower cost

- Speed of Deployment and Ease of Operations
  - Scalability and high-availability configuration is automated
  - Operational automation and flexibility (roll-outs, updates, roll-backs, backups, etc.
  - Enable developers to do more and develop apps faster without highly refined dba-specific skills
- Much less database-specific knowledge/experience is needed to run a cloud native database.
- Kubernetes defines a high-availability and scalability architecture that is common for all applications.
  - Kubernetes provides a standard framework for automation. This framework can be used to automate many database administration tasks
- Greater workload flexibility
  - Enhanced portability across a multitude of infrastructures because of container-based infrastructures
  - More efficient use of resources





## **OneDB 2.0 Reference Architecture**





## OneDB: A Proven Platform



Key		Description	% weight	
0	0	Not at all	0%	
•	1	Very basic support	25%	
•	2	Partial implementation on full on-prem	50%	
•	3 Good implementation and K8s support		75%	
•	4	Fully implemented/supported in cloud native	100%	

			DB2 on	MySQL w/		PostgreSQL w/			
Cloud Native Capabilities	OneDB v2	Oracle DB	Cloud	Vitess	MongoDB	EDB Operator	CockroachDB	Snowflake	YugaByte DB
Kubernetes Orchestration	•	•	0	•	•	·	•	0	•
HA the Kubernetes Way	•	•	0	•	•	0	•	0	•
Reliability - Data Integrity	•	•	•	•	•	•	•	•	•
Cloud Choice	•	•	•	•	•	•	•	•	•
Performance	•	•	•	•	•	·	•	0	•
Security	•	•	•	•	•	•	•	•	•
Serviceability	•	•	•	•	•	•	•	•	•
API Compatibility	•	9	•	9	•	•	•	•	•



Evaluated OneDB v2.0 against competitors in the cloudnative DBMS market, comparing over 60 attributes



# OneDB: A Proven Platform



			DB2 on	MySQL w/		PostgreSQL w/			
Cloud Native Capabilities	OneDB v2	Oracle DB	Cloud	Vitess	MongoDB		CockroachDB	Snowflake	YugaByte DB
Kubernetes Orchestration	0	•	0	0	•	•	•	0	•
Complex Cloud Native Scale Out	•	•	0	•	•	0	•	0	•
Region-Aware Replication	•	•	0	•	0	0	•	0	•
Pre-built Specialized Conf Defaults	0	0	0	0	0	0	0	0	0
HA the Kubernetes Way	0	•	0	•	•	0	•	0	0
Use K8S to leverage best HA solution for Application	•	•	•	•	•	•	•	0	•
Support RTO/RPO configurations	•	0	•	0	0	•	0	0	0
Reliability - Data Integrity	•	•	•	•	•	•	•	0	•
Global ACID Compliant Transactions	•	•	•	•	•	•	•	0	•
Local ACID Transactions	•	•	•	•	•	•	•	•	•
Cloud Choice	•	•	0	•	•	•	•	•	•
Cloud Provider Agnostic Availability	•	•	0	•	•	•	•	0	•
Interoperability with common cloud services	•	•	•	•	•	•	•	•	•
Availability on Public Cloud Marketplace	•	•	•	•	•	•	•	•	•
Available Where Customer is (On-prem,									
Private/Public/Hybrid Cloud, OpenShift)	•	•	•	•	•	•	•	0	•
Performance	•	•	•	•	9	•	•	0	•
Documented Performance	•	•	•	•	0	0	•	0	•
High-Speed Data Loader	•	•	•	•	•	•	•	0	•
Security	•	•	•	•	•	•	•	•	•
Access Control Options	•	•	•	•	•	•	•	•	•
Auditing Options	•	•	•	•	•	•	•	•	•
Encryption	•	•	•	•	•	•	•	•	•
Support 3rd party Authentication & auditing services	0	•	•	•	•	•	•	•	0
Serviceability	•	•	•	•	•	•	•	•	•
Support for data storage outside DBMS	0	•	•	•	•	•	•	•	•
Automated Backup and Restore	•	•	•	•	•	•	•	•	•
Monitoring tools support	•	•	•	•	•	•	•	•	•
Migration Support	0	•	•	•	•	•	•	0	•
API Compatibility	•	•	•	•	•	•	•	•	•
Support Multiple API standards	•	•	•	•	•	•	•	•	•
Support for multiple data models	•	•	•	•	•	•	0	0	•
Programming language drivers supported	•	•	•	•	•	•	•	•	•















- Kubernetes High Availability and Scalability support
  - Specialized containers to help deliver customized cloud native solutions
  - Updated Helm Charts for single click easy deployment
    - via HCL SoFy to use for production deployment of OneDB
    - via any Kubernetes environment (GKS, AKS, EKS, OpenShift)
  - Automated database backup to separate network storage orchestrated by new OneDB Kubernetes operator
- Architected for nimble CI/CD continuous delivery and integration
- Transaction Survivability: Applications using MongoDB APIs can survive disruption in server availability in case of any node failure



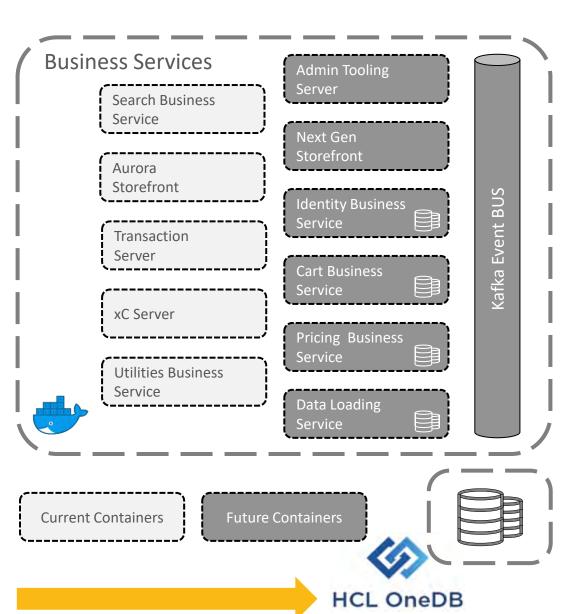


## Run HCL Commerce with a High Performance Cloud Native Database



- Run HCL Commerce 9.1.7
  in a true cloud native
  environment with OneDB
  - Commerce 9.1.7
     recommends OneDB 2.0 for
     all new cloud native
     customers!
- HCL Commerce + HCL
   OneDB delivers the best
   performance for
   ecommerce solutions
  - Sub-second pageload performance with OneDB
- Easy migration services









Paired for Success by Design: Unica and OneDB are performance tested and tuned together. Take advantage of our migration services and automation scripts.

**Easy Configuration**: Single Docker container to manage all metadata (system tables) and can manage Campaign (user/customer data).

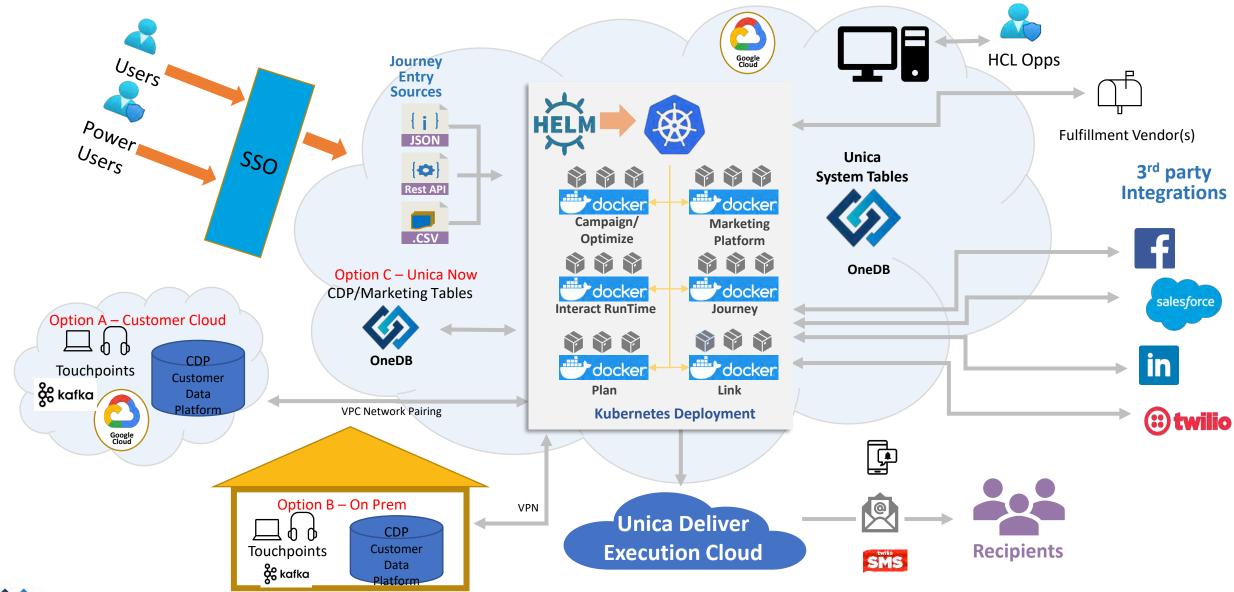
**Speedy Deployment:** Via SoFy and Unica on HCL Now offering, can be deployed in minutes!

Low TCO, Scale to meet your Demands: OneDB is embedded for system tables, and expandable to handle your demands. Multi-model capabilities make OneDB an excellent platform choice to power additional cloud-native applications within your enterprise martech ecosystem.



## Unica On HCL Now Reference Architecture

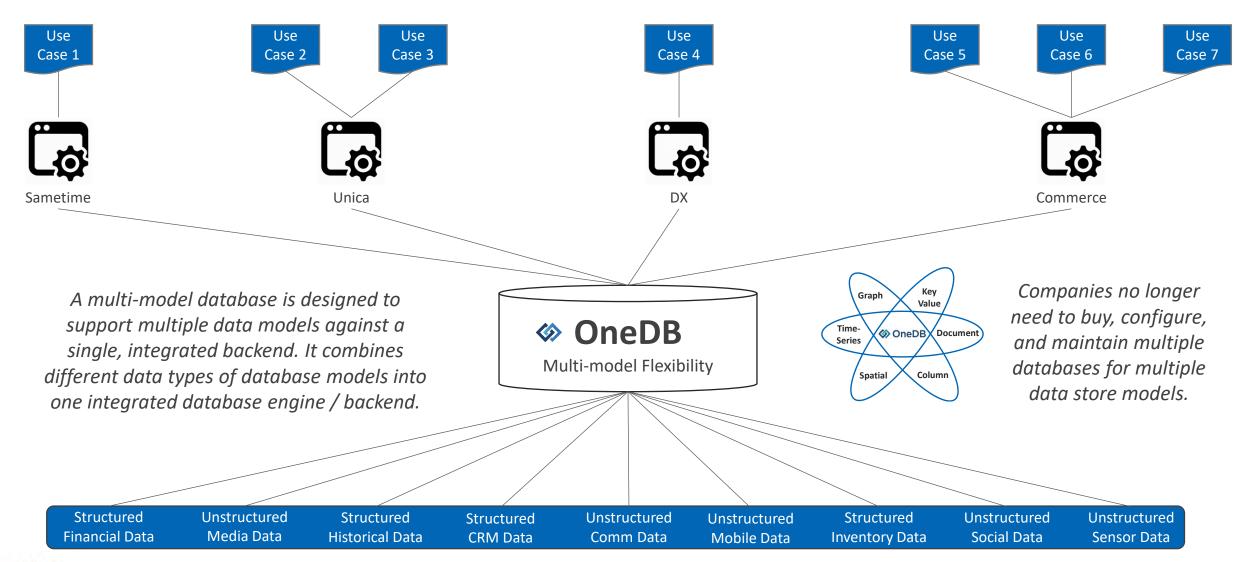






# Simplify with OneDB's extensibility to power addtn'l enterprise apps

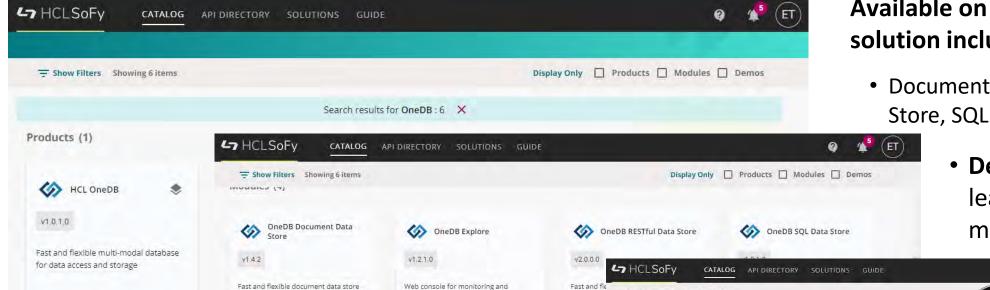






## HCL OneDB on SOFY





administering OneDB servers

ADD TO SOLUTION

- Show Filters Showing 6 items

HCL OneDB Demo Pack

Demonstrate easy migration from

ADD TO SOLUTION

document and relational data types in a single database, and using Grafana to

Demos (1)

v2.0.0.0-Preview

# **Available on SoFy, the OneDB solution includes 4 Modules**

- Document Data Store, RESTful Data Store, SQL Datastore, and Explore
  - Demo Pack Partners can learn to and deploy in minutes

Only Products Modul

## **URL:** HCL SoFy – Home:

ADD TO SOLUTION

The easy way to get started with running HCL Software products in Kubernetes. SoFy uses Helm technology to combine HCL Products and APIs as cloud-ready building blocks into portable, deployable packages.

for MongoDB applications.

ADD TO SOLUTION







2.0 Release

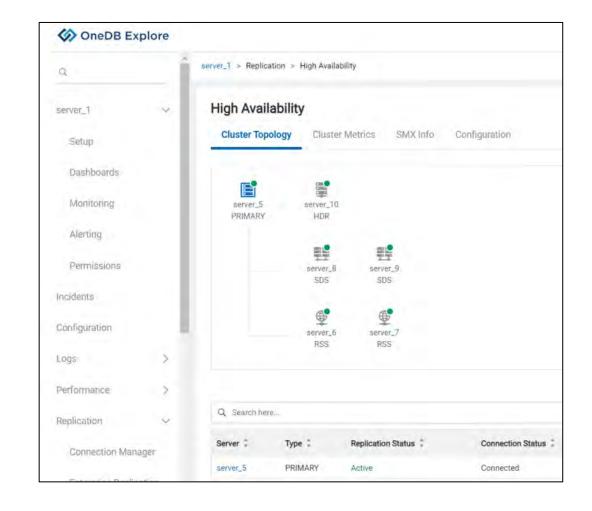
FEATURE REVIEW





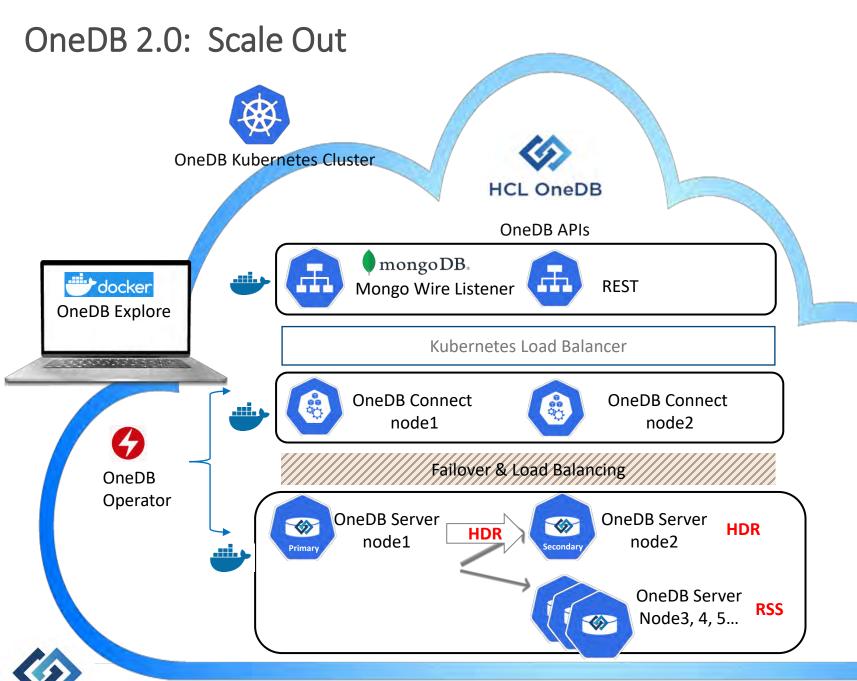
# 2.0: Orchestrated Cloud Native High-Availability & Scalability

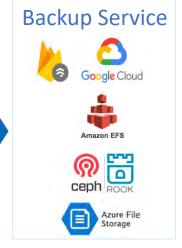
- With OneDB v2.0, your solutions will meet your highavailability and scalability demands, the Kubernetes cloud native way.
  - HDR (High-Availability Data Replication) node
  - RSS (Remote Standalone Secondary server) node(s)
  - Specialized containers to help deliver customized cloud native solutions
  - Auto-scaling to optimize and adjust to your seasonal business requirements helps recognize cost savings
  - Business continuity is guaranteed with high availability uptime and resiliency
  - All your data where you need –when you need it, fast and accurate!







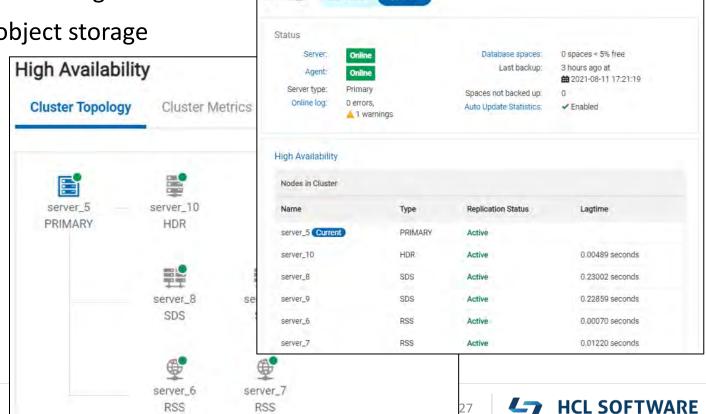






# 2.0: Cloud Native Orchestrated Backup in Kubernetes

- Kubernetes Operator-enabled Backup & Restore solution using K8s managed persistent storage or cloud provider managed storage
- Database backups to persistent volume using an NFS operator or cloud provider's native storage, with the last three backups retained
- Ability to restore the database from backup via configuration
- Backup to Amazon, Google Cloud, or Azure object storage
- Ability to recover your cloud native solution with data integrity, reliability in event of disaster



server\_1

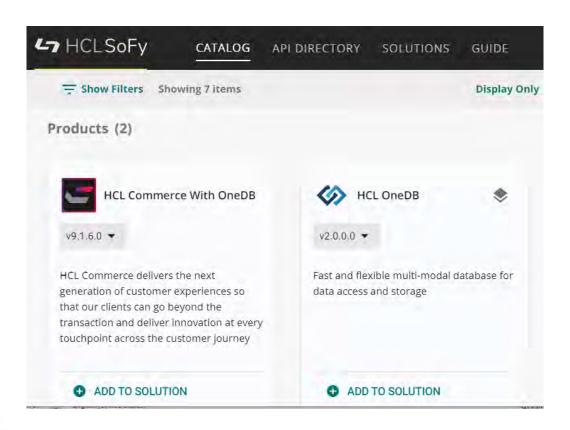


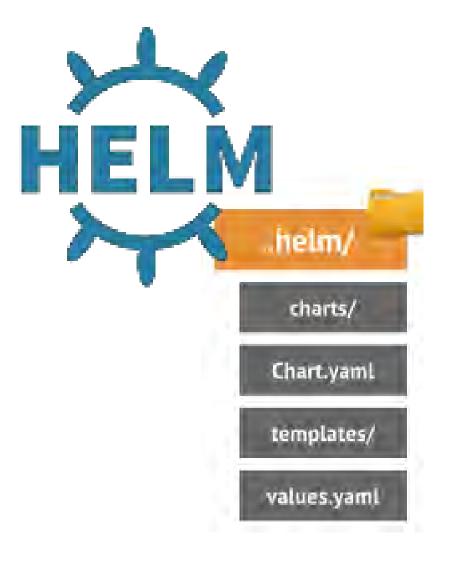
# 2.0: Easy Deployment & Orchestration via Helm Charts



## **Updated Helm Charts for single click easy deployment**

- via HCL SoFy to use for production deployment of OneDB
- via any Kubernetes environment (GKS, AKS, EKS, OpenShift)







# 2.0: Enhanced Enterprise Replication performance



## Significant enhancements to OneDB Enterprise Replication capabilities

- 1. Improved end to end ER replication performance of ~6 -12 X
- 2. Improved transaction apply parallelism
- 3. Eliminated blocking conditions in critical code paths
- 4. Minimized latch overhead and thread dependency
- 5. Utilized multiple network pipes to improve network throughput

## Use cases where applications can benefit:

- 1. Rolling upgrade scenario to migrate database server from one version to another
- 2. Migrating on premises servers to the Cloud
- 3. Schema upgrades, large table reorgs and database codeset migration using loopback replication to the same server
- 4. Geo replication to keep data closer to the customer
- 5. Scenarios where high replication throughput and low replication latency are important



# 2.0: Backups from Secondary Servers



 OneDB v2 users can now take backups from secondary servers, as well as the primary server

# Use cases where applications can benefit:

- Primary server is heavily loaded, and so taking backups from a secondary eases the load on the primary
- Many secondary servers are read-only. Backups can be created from these nodes





#### OneDB REST API – V2

- Better platform to build REST based applications
- Greater flexibility, more secure (SCRAM authentication model)

### REST for TimeSeries data

- New REST API for TimeSeries data to help address developer difficulties learning to work with time-based data
- Decreases learning curve for developers adopting OneDB and will lend itself to building new application design patterns (IoT, financial, utilities, healthcare/medical, etc.)







## 2.0: Transaction Survivability for Applications using MongoDB APIs

- OneDB can automatically restart failed transactions established by applications using MongoDB connectivity.
- Applications can now survive disruption in server availability in case of a node failure.
  - Apps may not even know that the connection was restarted once OneDB server is available.
  - Designed to support a rolling upgrade of the OneDB pods in a Kubernetes cluster.

## Digital Transactions: A Matter of Business Survival

in Daily Dose, Featured, Market Studies, News 3 November 4, 2020

In the midst of the pandemic and economic turmoil, seamless digital transactions will be at the epicenter of business survival, according to a study by the <u>Economist Intelligence and Transunion</u>.

Whether companies thrive or fold will hang on providing consumers friction-right digital transactions, the study overwhelmingly found. In fact, almost 85% of global executives surveyed as part of the study said they believe smooth digital transactions are "essential to business survival" rather than merely a competitive edge.

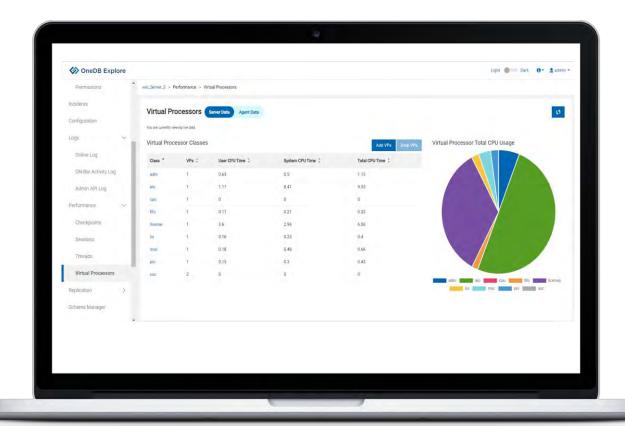
A total of 1,610 executives in places like Brazil, Canada, Chile, China, Colombia, the Dominican Republic, Hong Kong and the U.S. responded



# 2.0: OneDB Explore



Administration Automation and Optimization



- OneDB Explore is a web console for visualizing, monitoring, and managing your OneDB server instances, and more...
  - Enhanced Schema Manager supports more SQL schema operations
  - Customization of Explore server and agent logging behaviour
  - Explore agent connection properties can be configured separately
  - Swagger documentation for Explore APIs



# 2.0: OneDB 2.0 Cloud offering on AWS Marketplace





Hosted on Amazon, managed by YOU.

Cloud-delivered, **ready to run**, fast, resilient and scalable database management system

- OneDB on AWS Marketplace offers the complete features of OneDB on-premise deployments without the complexity and risk of managing your own <u>infrastructure</u>.
- AWS provides the infrastructure to run OneDB in a flexible, scalable, and cost-effective manner in the <u>cloud</u>.
- Purchase directly on AWS marketplace or BYOL option.



# **OneDB Components**

- Docker Containers
  - OneDB server
  - Explore
  - REST Listener, JSON [MongoDB] Listener
  - Connection Manager: part of separate component *OneDB Connect*
- Helm Charts
- Kubernetes operator to coordinate high availability and backup & restore

User personas now include Kubernetes admins, in addition to DBAs

Hosted on SoFy and containers are also supported in all public K8S marketplaces (Google, Amazon, Azure and OpenShift)



#### **Release Components**

HCL OneDB Enterprise Server - 2.0.0.0

HCL OneDB Standard Server - 2.0.0.0

HCL OneDB Embedded - 2.0.0.0

HCL OneDB Client SDK - 2.0.0.0

HCL OneDB JDBC - 8.1.0.0

HCL OneDB Explore - 2.0.0.0

HCL OneDB Connect - 2.0.0.0 (Connection Manager)

HCL OneDB APIs - 2.0.0.0 (Connectivity Drivers: REST and Mongo Wire Listener)

HCL OneDB Operator - 2.0.0.0 (Server Component / Feature)

#### **FNO Components (On-Prem)**

**HCL OneDB Enterprise Server** 

**HCL OneDB Standard Server** 

HCL OneDB Explore (Java Based)

**HCL OneDB APIs** 

**HCL OneDB Client SDK** 

**HCL OneDB JDBC** 

#### **Download Containers (Harbor) (HCL Now)**

**HCL OneDB Embedded** 

HCL OneDB Explore

HCL OneDB APIs (2 Separate Containers)

Mongo Wire Listener (onedb-mongo)

REST (onedb-rest)

**HCL OneDB Connect** 

**HCL OneDB Operator** 

#### **SoFy Components (Services)**

**HCL OneDB SQL Data Store** 

HCL OneDB Standard Server, Operator, Connect

HCL OneDB REST Data Store

HCL OneDB Data Store + REST

**HCL OneDB Document Data Store** 

HCL OneDB Data Store + Mongo Wire Listener

**HCL OneDB Explore Service** 

HCL OneDB Explore

**HCL OneDB Product** 

All of the Above







# **Product Direction**

**BUSINESS & TECHNOLOGY** 



# **HCL OneDB Strategic Imperatives**



## **Cloud Native Advantage**

- Fully automated orchestration and scaling through Kubernetes
- Competitive advantage: Location agnostic – Any/Multi-Cloud, On-prem, Embedded

- High-availability and scalability the Kubernetes way
- Easy to Deploy (SoFy)
- Aligned with HCL Software products and Partner Solutions





# Zero OneDB-specific skills needed

Automated database management

- Zero administration backup (scheduled)
- Administration automation/optimization
- Developer aids



## **Accelerate Adoption**

Support for HCL products, targeted external APIs, database models and developer productivity needed for enterprise adoption

- HCL Product support roadmap
- MongoDB API compatibility
- Multi-model (SQL/OLTP, OLAP, JSON/BSON, Time Series, Spatial) and Hybrid Transactions
- Developer productivity





## **CURRENT FOCUS**



Provide the cloud **portability**, **scalability**, **resiliency and performance** enterprise customers demand at the heart of their **cloud native applications**.

Recommended database for HCL Software portfolio, including Unica, Commerce, Workload Automation, LINK, SoFy, Sametime, Compass, and more!

Preferred DBMS solution for developers, Kubernetes administrators, and DBAs looking for the best database to **power** their **cloud native apps**.



- OneDB V2.0 Demo Pack on SoFy
- OpenShift Certification
- SoFy App support
- Remove Root User dependency
- OpenLDAP
- Support for NFS
- Token based authentication
- Rolling Upgrade
- Interoperability with cloud services
- Operator orchestrated Enterprise Replication
- Expand cloud compatibility and cloud presence



## Unica

- Unica on HCL Now customer engagements
- Performance enhancements
- Document performance benchmarks
- Unica w/ OneDB 2.0 support revalidation
- Refine configuration defaults

# Commerce

- Commerce Migration Experience
- CFIUS Compliance
- Performance enhancements
- SQL enhancements CLOBS handling and Mode ansi
- Commerce validation on Kubernetes
- Commerce on HCL Now with OneDB
- Enterprise Replication enhancements
  - Regional Cluster for disaster recovery
  - Active-active
  - Region-aware replication





# **Resources & Contacts**



SITE RESOURCE	URL
Partner Portal Signup	<u>HERE</u>
Product Catalogue Search	HERE
Customer Service Portal	HERE
FlexNet License and Delivery Portal	HERE
Deal Registration	HERE
Partner Pack Signup	HERE
OneDB Documentation	<u>HERE</u>

AREA	SPOC	EMAIL			
Sales Support	Doug Acker	douglas.acker@hcl.com			
Marketing Support	Amanda	arlene.kim@hcl.com			
Technical Enablement	Doug Acker	douglas.acker@hcl.com			
Product Development	Pradeep Muthalpuredathe	mpradeep@hcl.com			
Trial Licenses	Doug Acker	douglas.acker@hcl.com			
OneDB Product Demo	Doug Acker	douglas.acker@hcl.com			
Product Management	Emily Taylor	emily.taylor@hcl.com			
Regional Sales Support					
OneDB Global	Doug Acker	douglas.acker@hcl.com			
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# Appendix A

Supporting Materials

## **HCL Software Disclaimers**



#### **TIMING**

The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

#### **WARRANTIES**

Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from HCL or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of HCL products.

#### **PERFORMANCE**

Performance is based on measurements and projections using standard HCL benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

#### **CONFIDENTIAL INFORMATION**

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\$1B enterprise software business with presence in 50 countries

**50+ products** with **15,000+** enterprise customers

4200+ employees in Americas, Europe, India, South-east Asia, Japan, Australia and a specialized R&D center in Israel focused on security products

India's largest; Asia's fastest growing independent software **vendor**. A key player in HCL's growth strategy



### Journey so far...

#### 2016 - 2018

#### Signed 15-year IP Partnership deal with IBM

HCL P&P launched with 15-year partnership between IBM & HCL

Over the next 2.5 years, HCL signed 17 deals to manage 50+ **Products** 

Software labs were established in 4 continents at 16 different locations

#### 2019

#### **HCL Software introduced to operate HCL's enterprise** software product business

In Jul'2019, HCL closed acquisition of 8 enterprise products – AppScan, BigFix, Unica, Domino, DX, Commerce, & Connections

HCL's Enterprise Software business is now moved to a new business unit "HCL Software"

#### 2020

#### Released major product version for all 7 acquired products (2H-19 to 1H-20)

DX V9.5, Domino V11, Connections V6.5, AppScan V10, BigFix V10, Unica V12 &. V12.1, Commerce V9.1

Exclusive agreement with Temenos to market Quantum multiexperience development platform – "Phoenix" (July-20)