



# THE SELF-DRIVING DATABASE

## Oracle Autonomous Database Cloud

**Oracle recently launched the world's first 'self-driving' database, the Autonomous Database Warehouse Cloud (ADWC), part of a new category of Cloud Platform Autonomous Services.**

**The ADWC delivers automated patching, upgrades, and tuning—including performing all routine database maintenance tasks while the system is running—without human intervention.**

**The goal? Deliver unprecedented availability, performance and security—at a significantly lower cost.**

**An Accenture team, led by Paul Daugherty, Accenture’s Chief Technology & Innovation Officer, ran a performance test of the beta version of ADWC on a real application—one Accenture uses to manage the skills, talents, and deployments of Accenture’s Oracle resources.**

Accenture’s rigorous testing revealed that performance improved nine times running the Oracle workloads in the Oracle Cloud, and delivered a 14 times performance acceleration running these workloads. The Accenture team was able to load 500 million rows of data in less than three minutes, an increase of 10 to 15 times. Accenture tested scale by adding 12 times more data and saw stability and speed improve as more data was added.

**“We were impressed by both the performance and ease of use, with just four fields required to create a database. This allows for the democratization of access to technology, where a broader set of business users can create and analyze data directly”**

Paul Daugherty, Chief Technology & Innovation Officer, Accenture

## **UNLEASH THE INTELLIGENT ENTERPRISE**

This year’s Accenture Technology Vision for Oracle highlights five emerging trends shaping the way technology is increasing businesses’ impact across society—and how we see Oracle’s unsurpassed database resources and continued investment in digital technologies as a catalyst for our clients to be at the heart of this change. The report identifies five emerging trends.

## **Five Emerging Trends**

Trend 1: **Citizen AI**

Raising AI to Benefit Business and Society

Trend 2: **Extended Reality**

The End of Distance

Trend 3: **Data Veracity**

The Importance of Trust

Trend 4: **Frictionless Business**

Built to Partner at Scale

Trend 5: **Internet of Thinking**

Creating Intelligent Distributed Systems

Accenture 2018 Technology Vision for Oracle:

<https://www.accenture.com/us-en/insights/technology/oracle-technology-vision-2018>

The results of the performance tests speak beyond numbers: with autonomous capabilities, Accenture is helping to enable intelligence in the enterprise and transform the way people live and work. The future is in the ability to process massive amounts of data—and Accenture’s Oracle data specialists can now focus on providing insights to the data, where the autonomous set of services provides exponential opportunity.

The tests were performed at multiple Accenture locations and innovation centers across the globe, and conducted by Accenture’s Oracle data specialists, who brought extensive real-world experience to the process. The team utilized an existing cloud-based

analytics application, Platform Resource Enablement Tracking Tool, running on the Oracle Analytics Cloud Service. Data was replicated on the Oracle Database Cloud Service and the ADWC to provide a real-life application usage experience. The data was then extrapolated and expanded to nine years’ worth of data to test the performance.

The group has one of the largest concentrations of senior talent in Oracle database and engineered systems in the world, and has completed more than 600 Oracle Exadata implementations worldwide. Accenture’s Oracle data team has more than 20,000 professionals, who aid in delivering 50 billion transactions a day across more than three exabytes of data for clients globally.

**“From a security standpoint, the autonomous capabilities get us closer to the holy grail of being automatic, predictive and self-healing....with machine learning, we are better able to understand the correlation and nature of threats so we can be smarter about how to diagnose and defend.”**

Paul Daugherty, Chief Technology & Innovation Officer, Accenture

### **The Dawn of the Intelligent Enterprise**

A team of Accenture’s Oracle data specialists ran a performance test of the beta version of the Autonomous Data Warehouse Cloud (ADWC) on a real application, running real-world workloads:

- **9 times** performance improvement
- **500 million** rows of data loaded in less than three minutes
- **14 times** performance acceleration
- Stability and speed **improved**

## **ABOUT ACCENTURE**

Accenture is a leading global professional services company, providing a broad range of services and solutions in strategy, consulting, digital, technology and operations. Combining unmatched experience and specialized skills across more than 40 industries and all business functions—underpinned by the world’s largest delivery network—Accenture works at the intersection of business and technology to help clients improve their performance and create sustainable value for their stakeholders. With 449,000 people serving clients in more than 120 countries, Accenture drives innovation to improve the way the world works and lives. Visit us at [www.accenture.com](http://www.accenture.com).

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