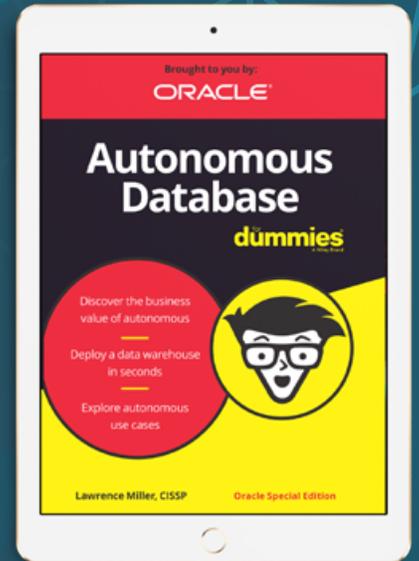


LEARNING MADE EASY

# Autonomous Database for Dummies



Data makes a big difference to the success of your business... Are you getting the maximum value from your data?

You need to be able to manage data and organize it so you can find what you need when you need it. More importantly, you need to be able to analyze and interpret the data to draw insights to make the decisions that enable your company to move ahead.

The problem? The quantity of data is doubling every year—with no end in sight. Traditional strategies for managing data manually simply can't keep up. And even with the best people on the job, manual administration creates the possibility of error, which can compromise data integrity and weaken security.



# Introducing Oracle Autonomous Database

Oracle Autonomous Database revolutionizes how data is managed and enables customers to quickly and easily get more value from their data. It combines the dynamic agility of the cloud with the intelligence and responsiveness of machine learning (ML), minimizing or eliminating the need for manual administration.



## Self-Driving

Tell it the service level you want to achieve, and Oracle Autonomous Database takes care of the rest, using ML to provision, monitor, back up, tune, troubleshoot, and upgrade. Decrease costs by reducing the time needed for routine tasks, eliminate the chance for human error and free up administrators to focus on tasks that deliver more value to the organization.



## Self-Securing

Oracle Autonomous Database installs security patches automatically every quarter—even off-cycle if an essential patch becomes available. Using artificial intelligence (AI), it detects both internal and external threats and responds with little or no manual input needed. And it protects itself with always-on encryption. Keep up with the evolving threat landscape without adding additional tasks for your IT staff.



## Self-Repairing

With a triple-mirrored configuration, Oracle Autonomous Database recovers from physical failures at the server or data center level and uses AI to predict and diagnose impending errors with little or no DBA interaction required. It applies updates in a rolling manner across nodes of the cluster so your database remains available. And it runs nightly backups automatically.

## The Result

**99.995% availability.**

**That adds up to less than 2.5 minutes of downtime every month.**

# Building a Better Database

Oracle Autonomous Database leverages two revolutionary cloud services:

- [Oracle Autonomous Data Warehouse](#) uses AI to deliver unprecedented simplicity, performance, and elasticity for your data storage—and it can be deployed with only a few seconds of manual work. Migrate quickly and then take advantage of the tools that will manage your data for you, including on-premises workloads so you can leverage your current investments.
- [Oracle Autonomous Transaction Processing](#) uses ML and automation to handle a mix of high-performance transactions and reporting, as well as real-time analytics and fraud detection—processes that, until now, had to be handled by skilled DBAs. With no manual interaction required, you can reduce administrative costs by up to 80%. And with a highly elastic structure, you never have to pay for more performance and scale than you need. This enables your team to focus on high-value activities and your business.

## Build on a Reliable Foundation

The foundation for Oracle Autonomous Database is the highly reliable and highly scalable [Oracle Cloud Infrastructure](#) solution, designed to support performance-intensive workloads. Scale up to 424 TB of capacity and 1 PB per instance, with millions of IOPS. Three separate domains placed 19 miles apart deliver low latency and connectivity of up to 25 GB/sec, and they can be connected by private networking options for maximum performance. And self-healing [Oracle Real Application Clusters \(Oracle RAC\)](#), with automatic replication and active monitoring, provides the resilience you need for mission-critical applications.

## Go from Data to Insight

With [Oracle Analytics Cloud](#), you can extract the insight that makes your data mean more, giving you the perspective you need when you need it—including analysis you can ask for in plain language without hitting a key. Find out what you need to know before you even know you want it, with personalized analysis based on your recent queries. Dig deeper. Discover hidden patterns. Generate reports and scenario models instantly. And visualize the data in flexible ways to better communicate its value.

# Keep Your Application Developers Happy

Oracle Autonomous Database is designed with developers in mind. Developers have flexibility and choice, along with compatibility and interoperability. They can work in either Oracle Database or popular programming languages such as Java, PHP, Python, Ruby, and more. And they can take their choice of operating systems and infrastructures, including containers, virtual machines (VMs), bare metal, and on-premises cloud. It's all about what works best to get the job done right.

## The Benefits of Oracle Autonomous Database

Oracle Autonomous Database is ushering in a new era of data management, one in which you can not only keep up with the increase in data but also get more value from your data with less manual administration.



### Ever-Vigilant Protection

Patches are installed automatically, while automatic data encryption and AI-enabled threat detection and remediation stay a step ahead of both internal and external threats.



### Reduced Costs

Minimize or eliminate the need for manual administration and migrate to the cloud up to 30% faster.



### Ease and Efficiency

Create a database or data warehouse in mere minutes, then let the system autonomously handle all tuning, patching, and backing up.



### Faster Innovation

Free up your IT team to focus on tasks that move your organization forward.



### Limitless Performance

Instantly and transparently scale up or scale out as demand increases and never pay for more capacity or performance than you need.



### Always-on Availability

All patching, scaling, tuning, and backing up occurs while your operation is running, ensuring 99.995% uptime.

# New Possibilities for Data Management

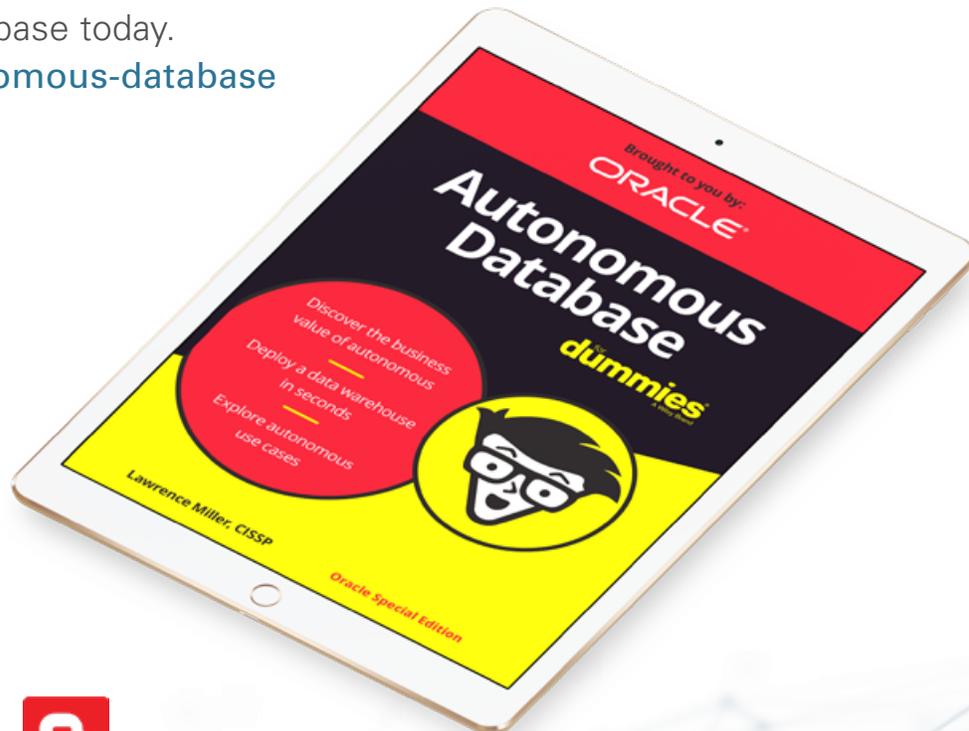
Data is doubling every year—and that’s a good thing. It enables leaders and executives to know more about their business and how to run it better. But data by itself is of limited value if not intelligently managed and available when needed.

Oracle Autonomous Database uses the power of AI, ML, and the cloud to help you first manage and organize your data, then pull insight from it instantly—with little or no manual administration required. This wasn’t possible until now. It scales as your data scales. It secures and upgrades itself. And it creates new ways to use data to move ahead—in your market and in your industry.

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