

# Dell EMC Ready Solutions for Oracle

Safeguard the availability of mission critical Oracle workloads with a purpose built solution that reduces costs and increases productivity.



## Essentials

- Pre-tested and validated solution for Oracle database environments
- Safeguard availability
- Increase efficiency
- Simplify the environment

## Benefits

- Enhanced six-nines availability
- Sub-millisecond response times
- Significant cost savings
- Future-ready scalability
- Mixed workload consolidation

## Optimize Oracle for mixed workloads

Oracle® databases play a critical role in today's enterprises, handling massive amounts of data and transactions that produce revenue and drive business insights. In recent years, virtualization has enabled consolidation of database workloads, simplifying management and giving database administrators (DBAs) the flexibility to mix online analytics processing (OLAP), online transaction processing (OLTP) and testing and development (test/dev) workloads on the same infrastructure.

While virtualization is a proven strategy for consolidating databases, it can present unique challenges. Resource contention and lost connections can put critical database application performance and availability at risk. And hardware that isn't optimized for virtualized Oracle environments can lead to costly server and storage sprawl. Finally, managing Oracle databases is complex, often consuming too much of a DBA's time.

## Solve Oracle Database challenges

Dell EMC Ready Solutions for Oracle are designed to answer these challenges whether you are running Oracle 11c, 12c or 18c. These purpose-built solutions can support production OLTP and OLAP applications and test/dev environments at the same time without sacrificing performance or storage space. With these Oracle databases and other applications existing together and functioning optimally, you gain a host of benefits, including:

- Enhanced six-nines availability, with sub-millisecond response times,
- Greater efficiency running multiple applications in the same rack, and
- Breakthrough simplicity for deployment, management and support.

## Variety of configurations

Dell EMC PowerEdge Servers



Dell EMC All-Flash Storage Arrays



Dell EMC Software-defined Storage Building Blocks



Dell EMC Data Protection



Dell EMC Networking



## Safeguard availability

Internal testing proved that Dell EMC Ready Solutions for Oracle support both production OLAP and OLTP along with test/dev environments in a single virtualized environment. The high availability (HA) architecture and design built at every component level of the solution eliminates single point of failure and provides flexibility for planned maintenance downtime. So, when application owners and admins fix bugs, optimize an existing workload and test patches or updates, applications continue to access critical data at the speed of business.

## Increase efficiency

Dell EMC Ready Solutions for Oracle are pre-tested and validated. They integrate Dell EMC servers, networking and storage, and incorporates proven design, testing, and release phases that might otherwise take months or weeks to complete. This includes the most efficient storage replication solution in the industry<sup>1</sup>, which is able to reduce WAN bandwidth by 75% or greater.<sup>2</sup> In addition, the Dell EMC storage components that have been pre-tested and validated as part of the Ready Solutions for Oracle offerings come with [Dell EMC's Flash Storage Efficiency Guarantee](#).

The massive over-provisioning typical of databases is also driving the need for greater efficiencies. With server consolidation, not only are hardware footprints reduced, but the costs for expensive database licenses can also be reduced.

## Simplify the environment

Dell EMC Ready Solutions for Oracle shorten the design cycle and configuration time with a solution that's tested and validated with OLAP, OLTP and test/dev running in the same environment for easier planning and deployment. Each of the components provide capabilities designed to help simplify managing the infrastructure.

**Servers:** Dell servers are designed to make server administrators more productive and improve the overall availability of the servers. Administrators can update and manage Dell systems even when the server is turned off. It alerts system administrators to server issues and helps them perform remote server management, reducing the need for physical access to the server.

**Storage:** Dell EMC all-flash storage arrays are designed to simplify management so you can focus on what really matters – unlocking value from data. For example, administrators can create new storage devices in seconds--simplifying virtual storage provisioning. Integrated Copy Data Management capabilities allow for instant copies to be created from production or gold master copy with no performance impact. Copies can be repurposed for near real-time analytics, Test/Dev, patching, and sandbox testing and with the ability to refresh and restore in all directions—simplifying copy data management activities. Dell EMC also offers a no cost, no maintenance cloud-based storage analytics application, CloudIQ. It uses near real-time intelligence, proactive monitoring, predictive analytics, and machine learning to deliver comprehensive health scores at-a-glance.

**Data Protection:** Database administrators no longer need to depend on backup administrators to do their backups and recoveries. Dell EMC's data protection offerings provide database administrators with the ability to manage their own backups to Dell EMC's systems using RMAN-- an Oracle Database client you already know and trust.

## Dell EMC Professional Services

Dell EMC's portfolio of services help customers drive the rapid adoption and optimization of Dell EMC Ready Solutions for Oracle.

### ProDeploy Enterprise Suite

Dell EMC ProDeploy services, with local, personalized skill and scale, are optional but highly recommended to expedite the implementation and ensure success. For Ready Solutions, Dell EMC deploys the racked configuration in the data center, including network cabling, operating system, firmware and hypervisor.

### ProSupport Enterprise Suite

Dell EMC ProSupport is mandatory for the Ready Solutions for Oracle as it provides comprehensive hardware and collaborative software support to help optimize system performance and minimize downtime.

ProSupport includes next-business-day on-site service with four- and eight-hour parts and labor response options, and escalation management with customer-defined severity levels. Customers can also opt for ProSupport Plus to get a Technology Service Manager who provides a single point-of-contact for support.

### Dell EMC Customer Solution Centers

Experience Dell EMC solutions in our global network of 21 dedicated facilities. The [Dell EMC Customer Solution Centers](#) are trusted environments where world class IT experts collaborate with you to share best practices, and facilitate in depth discussions of effective business strategies using briefings, workshops or proofs of concept to help you become more successful and competitive. Dell EMC Customer Solution Centers reduce the risk associated with new technology investments and can help improve speed of implementation.

### Dell Financial Services

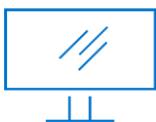
A wealth of leasing and financing options from Dell Financial Services can help customers find opportunities when the organization faces decisions regarding capital expenditures, operating expenditures and cash flow.

- Leasing and financing solutions are available throughout the U.S., Canada and Europe.
- Dell Financial Services can finance the total technology solution.
- Efficient electronic quoting and online contracts offer an efficient purchase experience.

Learn more about [Dell Financial Services](#).

1. Based on Dell EMC internal analysis of XtremIO X2, March 2018.

2. Based on Dell EMC internal analysis of XtremIO X2, February 2018. Assumes 4:1 data reduction.



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