

# **Accelerate Oracle** Applications and Reduce Costs With Hitachi Solutions

The increase in digital initiatives has fueled the requirement to optimize and modernize everywhere. For businesses to maximize the value of their critical workloads, on-premises infrastructure modernization is an essential element of a successful IT strategy. With mission-critical workloads, such as Oracle databases, businesses need to modernize while minimizing risk.

#### The Mandate to Modernize Infrastructure Everywhere

Given the demands of contemporary business on IT and cloud operations, neither on-premises infrastructure nor public cloud services alone can meet the needs of enterprise organizations. As cloud adoption increases, data center investment on premises scales as well. Hybrid cloud infrastructure environments will persist for the long run. In addition, businesses need to modernize everywhere on and off premises to maximize the value of their data and applications.



The average organization is running



of organizations planned to increase their 2023 spending for data center infrastructure relative to 2022 spending levels, with an additional 42% expecting to keep spending levels the same.

50%

of its applications on premises.



The average number of data center locations operated by organizations is expected to increase over the next five years.



### **Prioritizing On-premises Infrastructure Modernization for Oracle Databases**

When modernizing an IT infrastructure for an Oracle environment, organizations need to focus on optimizing performance and utilization, minimizing licensing costs, and simplifying infrastructure operation and management. Modernizing the infrastructure where the database already resides reduces the cost and complexity of cloud migration.



#### Modernize an Oracle Infrastructure with Hitachi

The Hitachi Vantara Unified Compute Platform (UCP) for Oracle is a consolidated and validated solution that includes Hitachi servers, networking components, and Hitachi Virtual Storage Platform 5600. Hitachi Vantara modernizes onpremises infrastructure for Oracle by optimizing performance and utilization, minimizing licensing costs, and simplifying infrastructure operation and management.

Hitachi Vantara studied several fundamental aspects of database performance in order to maximize the data processing and throughput of Oracle environments. Specifically, Hitachi Vantara focused on optimizing:



Transaction processing - The faster an organization can scale its applications, the faster it can generate revenue for the business, especially regarding transactions that are tied to online banking, shopping, or order entry.





The log writer - Oracle sessions typically must wait for redo log writes to complete before they can continue processing. Redo log writer throughput and low-latency performance is crucial for transaction processing and consistency (recovery) in case of failure.



The data load - Data load performance is essential to ensure data is quickly made available to the Oracle database.



Data analytics performance for Oracle E-Business Suite AI/ML use cases - With faster analysis of large data sets that offer insight into what has the greatest business impact, it's possible to make faster and better business decisions.

## Conclusion

Organizations need to modernize everywhere because it is not practical to "just move everything to the cloud." Oracle environments present an excellent example of the importance and sensibility of pursuing on-premises modernization. The Hitachi Vantara solution offers differentiated, impressive performance along with cost-control features, impressive consolidation, and agility, with an ability to plug in to any of the hyperscalers and handle more database applications. Smart CIOs should be investigating Hitachi Vantara technology. It is fast, economical, flexible, and capable of consolidating more applications (not just Oracle) on one piece of hardware. With this solution, Hitachi Vantara is providing yet more proof that it can deliver transformational innovations to its customers and prospects to help them maximize performance, simplify their environment, and reduce the risks and costs traditionally associated with using an Oracle database on an enterprise level.

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