Accelerate Oracle Applications and Reduce Costs With Hitachi Solutions

The increase in digital initiatives has fuelled the requirement to optimize and modernize everywhere. For businesses to maximize the value of their cloud investments, on-premise infrastructure modernization is an essential element of a successful IT strategy. Hitachi Vantara now provides solutions for Oracle database, businesses need to modernize while minimizing risks.

The Mandate to Modernize Infrastructure Everywhere

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

- 54% of data centers are running on premises.
- 50% of businesses stated that they expect to increase their 2023 spending for data center infrastructure relative to 2022 spending levels, with an additional 15% expecting to keep spending levels the same.

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 reliability, enhancing data protection, and simplifying the management of Oracle environments. Maximizing the infrastructure where the database already resides reduces the cost and complexity of cloud migration.

- 68% said that the cost and time required for re-platforming applications adds significant cost, complexity, and risk to cloud migrations.
- 65% agreed that an organization faces a high challenge with application and data portability across locations.
- 30% indicated that performance requirements could be achieved more cost-effectively with premises compared to a public cloud.

Modernize an Oracle Infrastructure with Hitachi

The Hitachi Vantara Unified Compute Platform (UCP) for Oracle is a preassembled and validated solution that includes Hitachi servers, networking components, and Hitachi Virtual Storage Platform 5600. Hitachi Vantara modernizes on-premise infrastructure for the 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, which means reducing costs that come with ordering, shipping, and other entry.
  - The log writer: Oracle sessions typically must wait for redo log writes to complete before they can continue processing. Reducing log writes in the database and enhancing performance is crucial for transaction processing and transaction consistency in case of failure.
  - The data load: Data load performance is essential to ensure data is quickly made available to the Oracle database.

- The data load performance for Oracle Business Suite AOE, use cases, with faster analysis of large data sets that offer insights into what has the greatest business impact, is 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. With mission-critical workloads, such as Oracle databases, businesses need to modernize while minimizing risks. For businesses to maximize the value of their cloud investments, on-premise infrastructure modernization is an essential element of a successful IT strategy. Hitachi Vantara now provides solutions for Oracle database environments, businesses need to modernize while minimizing risks.

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

- Number of data centers five years ago: 7
- Number of data centers today: 9
- Number of data centers five years from now: 11

- 39% of organizations expect to keep spending levels the same.
- 39% expect to increase their 2023 spending for data center infrastructure relative to 2022 spending levels, with an additional 15% expecting to keep spending levels the same.

Data analytics & performance for Oracle Business Suite AOE, use cases, with faster analysis of large data sets that offer insights into what has the greatest business impact, is possible to make faster and better business decisions.

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