Oracle database consolidation and modernization

Motivation

Modern enterprises continuously deploy new databases into production, with new applications developed and released at a rapid pace. As the years go on, companies will invariably end up with a large inventory of Oracle databases and related issues.

– Old database versions that are out of support or soon to go out of support

– Databases running on outdated hardware

– Underutilized servers

– Unused databases

– Lack of standards

– Complex operations

Challenge

Supporting a large inventory of Oracle databases and database servers can become extremely complex, making it difficult for IT teams to ensure availability, security, and performance. The lack of time and skilled Oracle resources to focus on improving the database landscape only compounds the problem. There are also many high-priority initiatives to support business growth that take precedence over improving operations and eliminating waste.

Solution

Database Consolidation and Modernization from Kyndryl™ provides advisory, migration, build, and project services to modernize and consolidate your databases and servers, simplify operations, reduce costs, and improve database security, availability, and performance. The service is anchored in Oracle database consolidation best practices and can also leverage Oracle Exadata technology.
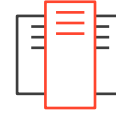
Our focus:

– **Reduce hardware and software licenses costs** by running the same databases on less hardware, on premises, in the cloud, or both.

– **Simplify operations** with fewer configuration items for streamlined management and reduced personnel costs.

– **Standardize databases** to offer developers a single, consistent database footprint, rather than multiple incompatible technologies.

– **Strengthen security** with minimized vulnerabilities, elevated focus on security process improvements, and rapid deployment of security fixes.

– **Implement multitenant architecture** whenever possible.
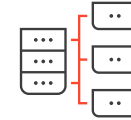
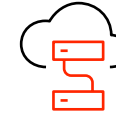## Approach

Identify inventory databases to be consolidated
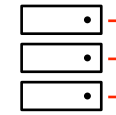
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Gather resource utilization and growth metrics

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Map resource requirements to new platform
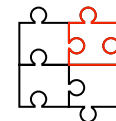
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Determine database isolation requirements and methods

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Select consolidation method for databases

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Group databases into high availability tiers

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Perform bin-packing of databases into resource shapes

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Create resource plans for databases

Benefits

Database consolidation and modernization yields many benefits that build on each other, including:

1. **Cost savings** with databases running on less hardware

2. **Operational simplicity** through standardization and reduced footprint

3. **Enhanced security** with sound architecture and improved security processes

4. **Availability and performance** through right-sizing and adoption of state-of-the-art database technology like Exadata

Why Kyndryl?

Kyndryl has been an Oracle partner for over 30 years. Our team of dedicated Oracle consultants have decades of experience driving success in customers' Oracle projects around the world. Our services are designed to help you at each stage of your Oracle investment, from consulting to implementation to management. In addition to our managed services, data and AI services from Kyndryl can also help you gain valuable insights from your Oracle data.

For more information

To learn more about how Kyndryl can help you migrate, modernize, and manage Oracle workloads on public cloud, please contact your Kyndryl representative or visit us at kyndryl.com.