Modern IT Transformation: Adamed Migrates to a High-Performance Oracle OLVM Cluster Platform

Customer

Our client is Adamed, a leading pharmaceutical innovator in Poland, which relies heavily on IT systems supporting research, production, and operations.

Business challenge

The client faced key challenges related to an aging Oracle VM environment, limited maintenance flexibility, and constrained scalability. The main issues included:

- End of platform support: Oracle VM x86 was no longer supported, increasing the risk of downtime and compatibility problems.

- High operational risk: Limited high-availability mechanisms and a lack of automation led to inefficiencies and prolonged recovery times during both planned and unplanned outages.

- Need for additional computing power: Growing business demands required higher performance to support future workloads.

- The goal was to implement a modern Oracle Linux Virtualization Manager (OLVM) environment, integrated with advanced clustering, storage systems, and highly available Oracle ERP.

Solution

To successfully migrate to OLVM and achieve improved performance, the following technical solutions were implemented:

1. New Hardware Infrastructure

- Migration to a modern enterprise-class server infrastructure, significantly increasing performance (up to 80% faster in SPEC benchmarks).

- Deployment of modern storage media and integration with a Fibre Channel SAN, ensuring high availability and data security.

2.Virtualization Update

- Implementation of Oracle Linux Virtualization Manager (OLVM) in self-hosted Engine mode, providing reliable management and failover mechanisms.

- Migration of virtual machines from Oracle VM to OLVM, automation of instance migration in the production environment, and selective restoration of test configurations.

3.Cluster Enhancements

- Implementation of clustering solutions across all environments, with precisely configured resources, HA agents, and dedicated disk groups.

- Configuration of hard partitioning mechanisms to ensure compliance with Oracle licensing.

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4. Automation with Ansible

- Automation of administrative processes, including environment cloning, patch installation, and cluster component management, using infrastructure automation tools.

- Optimization of load-balancing components to improve the efficiency of ERP systems.

5. Backup and High Availability

- Integration of Oracle virtualization with the backup system, including enhanced snapshot-based recovery capabilities.

- Modernization of high-availability mechanisms for databases and applications, including redesign of dedicated cluster agents within the application environment.

Results

The migration delivered groundbreaking improvements to the client's IT infrastructure, including:

- **Increased Performance:** Significant enhancements in database and ERP application tasks following hardware modernization.

- **Scalability:** Deployment of modern servers enabled a substantial increase in computing resources and system throughput.

- **High Resilience:** Improved resource management and process automation contributed to faster system recovery after failures.

- **Future-Ready Platform:** Oracle support until 2032 ensures that the OLVM platform provides a solid foundation for further digital initiatives.

Thanks to an innovative migration approach and a long-term partnership with Goldenore—which also included database management and Linux system administration—the client gained a modern, scalable IT infrastructure ready to support further operational growth. The completed initiatives ensured high availability, performance, and security of mission-critical environments, while establishing a solid foundation for future technological initiatives.

What our clients say about us:

> *The Goldenore team completed the project on schedule and within budget. Its employees demonstrated skills and commitment well above industry standards.*
>
> Adam Białas
> Director of Cloud Services and IT Infrastructure at Adamed S.A.

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